## EXHIBIT 49

## Redacted Excerpts from the First Deposition of Dr. Hal Singer

Page 1

IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF NEVADA

- - -

IN RE: : Civil Action

: DOCKET NO.

CUNG LE, NATHAN QUARRY, : 2:15-cv-01045-RFB-

JON FITCH, BRANDON VERA, : (PAL)

LUIS JAVIER VAZQUEZ and :

KYLE KINGSBURG, on behalf : CLASS ACTION

of themselves and all others similarly :

situated,

Plaintiffs,

:

·

:

ZUFFA, LLC, d/b/a
ULTIMATE FIGHTING
CHAMPIONSHIP and UFC,

V.

:

Defendants. :

\_ \_ \_

Wednesday, September 27, 2017

- - -

Videotaped deposition of HAL J. SINGER, Ph.D., taken pursuant to notice, was held at the law offices of Berger & Montague, P.C., 1622 Locust Street, Philadelphia, Pennsylvania 19103, beginning at 9:24 AM, on the above date, before Constance S. Kent, a Certified Court Reporter, Registered Professional Reporter, Certified LiveNote Reporter, and Notary Public in and for the Commonwealth of Pennsylvania.

\* \* \*

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	Page	6		Page 8
1	(Exhibit No. Singer-1,		1	Flexner also for defendant Zuffa.
2	Expert Report of Hal J. Singer,		2	MR. CRAMER: And on the
3	Ph.D., No. Singer-2, Errata, and		3	phone is Augie
4	No. Singer-3, Errata II, were		4	THE WITNESS: Augie Urschel.
5	marked for identification.)		5	MR. CRAMER: Augie Urschel
6	THE VIDEOGRAPHER: We are		6	from Economists, Inc.?
7	now on the record.		7	THE WITNESS: Correct.
8			8	
9	This begins videotape No. 1		9	MR. CRAMER: You can spell
10	in the deposition of Hal J. Singer	.	10	his name for the court reporter.  THE WITNESS: I don't know.
11	in the matter of Cung Le versus			
	Zuffa, LLC, in the US District		11	Maybe Augie can spell his last
12	Court for the District of Nevada.		12	name, Urschel.
13	Today is Wednesday,		13	MR. URSCHEL: U-R-S-C-H-E-L.
14	September 27th, 2017, and the time		14	THE WITNESS: Thanks, Augie.
15	is 9:24 AM.		15	THE VIDEOGRAPHER: All
16	This deposition is being		16	right. Will the court reporter
17	taken at 1622 Locust Street in		17	please swear in the witness.
18	Philadelphia, PA 19103 at the		18	HAL SINGER, having been
19	request of Boies, Schiller &		19	first duly sworn, was examined and
20	Flexner, LLP.		20	testified as follows:
21	The videographer is Sol Tran		21	
22	of Magna Legal Services, and the		22	EXAMINATION
23	court reporter is Connie Kent of		23	
24	Magna Legal Services.	,	24	BY MR. ISAACSON:
	Page	7		Page 9
1	Will counsel and all parties		1	Q. So Dr. Singer, for ease of
2	present, please state their		2	reference, we're putting in front of you
3	appearances and whom they		3	Exhibits 1, 2 and 3. Exhibit 1 is your
4	represent.		4	report, Exhibit 2 is your first errata
5	MR. CRAMER: Eric Cramer		5	and Exhibit 3 is your second errata. And
6	from Berger & Montague for the		6	I'll be asking questions about those two
7	plaintiffs.		7	today, and if when you want to refer
8	MR. DAVIS: Joshua Davis on		8	to them, I wanted to make sure you had
9	behalf the Saveri Law Firm for		9	them in front of you.
10	plaintiffs.	-	10	A. Okay.
11	MR. SILVERMAN: Dan	-	11	Q. All right. Now, I'm going
12	Silverman, Cohen Milstein Sellers		12	to ask you hopefully some detailed
13	& Toll, on behalf of plaintiffs.		13	questions about the various models that
14	MR. SUTER: Mark Suter,		14	you've that are included in your
15	Berger & Montague, on behalf of		15	report, but let me just ask you some high
16	the plaintiffs.		16	level questions to make sure I understand
17	MR. ISAACSON: Bill		17	what models you have in in the report.
18	Isaacson, Boies, Schiller &		18	Now, for purposes of
19	Flexner for defendant Zuffa.		19	damages, your first two damages models
20	MR. WIDNELL: Nicholas		20	are benchmark benchmarks against
21	Widnell, Boies, Schiller &		21	Strikeforce and Bellator based on the
22	Flexner, for defendant Zuffa.		22	percentage of revenue paid to fighters;
23	MR. NAKAMURA: Brent		23	is that correct?
24			23 24	
4	Nakamura, Boies, Schiller &	-	∠ 廿	A. That is correct.



	Page 10		Page 12
1	Q. Okay. And those those	1	MR. CRAMER: Misstates the
2	models don't include any explanatory	2	testimony, foundation, form.
3		3	THE WITNESS: I believe the
4	variables, they're a simple comparison of	4	
5	the percentage of revenues between firms?	5	challenged conduct is the is the cause of the foreclosure
6	A. I wouldn't put it that way.	6	
7	They are a comparison of fighter wage shares across the two firms.	7	share, that's correct. BY MR. ISAACSON:
8		8	
9	<ul><li>Q. Right.</li><li>A. You said revenues.</li></ul>	9	Q. Okay. And for foreclosure
10		10	in your regression, you used what what you called the tracked fighters
11	Q. You're correct, I misspoke.	11	•
12	So thank you.	12	foreclosure measure; is that right?
13	They are they don't		A. Are you speaking of the
14	include any other explanatory variables,	13	regression in the damages section?
15	they're just a comparison of the	14	Q. Well, I think you've used it
16	percentage of revenue paid to fighters between firms?	15	for several different things, but your
17		16 17	foreclosure regression, and maybe if you
	A. Well, these these are		want to look at Table 6 of your report,
18	benchmarks and and I think by the	18	page 125.
19	construction of a benchmark, as opposed	19	A. Sorry, the page?
20	to, say, a regression model, which I've	20	Q. 125.
21 22	also included, these particular damages	21	A. Okay.
23	models don't control for variables	22	Q. Now, Table 6 on page 125 is
	other variables in the same way that a	23	the output of your foreclosure
24	regression model might.	24	regression, correct?
	Page 11		Page 13
1	Q. Okay. Then your next damage	1	A. It is the output of one
2	model is a regression model, and that	2	regression specification that appears in
3	shows the relationship attempts to	3	a different section of the report,
4	show the relationship between Zuffa's	4	correct.
5	foreclosure share and its own percentage	5	Q. Okay. But it is an output
6	of revenue shared with fighters.	6	of your foreclosure regression, correct?
7	Do I have that right?	7	A. I wouldn't put it I would
8	A. Controlling for all other	8	put it just to be just to clarify
9	things that could explain variations in	9	what this is, it is the output of the
10	Zuffa's fighter wage share, yes.	10	regression of one specification of the
11	Q. Okay. And that model	11	regression that I ran in the
12	assumes that challenged conduct in this	12	anticompetitive effects section of the
13	case, as you've defined it in your	13	report. I just want to make sure that we
14	report, caused the foreclosure.	14	don't conflate anticompetitive effects
15	A. No, I'm no, that's not	15	with damages.
16	correct.	16	Q. And I'm not trying to. I
17	Q. Okay. Does it assume	17	understand that this then gets used in
18	that well, what caused the foreclosure	18	damages. I'll take that next step. But
19	other than the challenged conduct?	19	let's give it a shorthand name?
20	MR. CRAMER: Form.	20	A. Okay.
21	THE WITNESS: Can I have	21	Q. Can we call it your
22	that question back?	22	foreclosure regression or and this
23	(Pertinent portion of the	23	would be one output because it's what
24	record is read.)	24	the result of one specification, one

	Page	14		Page 16
1	output of your foreclosure regression.		1	MR. CRAMER: Objection to
2	A. If you want to call it the		2	form.
3	foreclosure regression, I think that I'll		3	THE WITNESS: You're going
4	go with that.		4	to have to show me where
5	Q. Okay. And by the		5	BY MR. ISAACSON:
6	foreclosure regression, I mean, the		6	Q. Sure. The if you look
7	regression where you where you say		7	at so just look at page 162 of your
8	that you are showing that the when		8	report.
9	there's an increase in share of		9	A. Okay.
10	foreclosure, there's a decrease in share		10	Q. Section A on page 162 has
11	of revenue paid to fighters.		11	paragraphs 247 and 248. That's
12	A. Can I hear that back?		12	discussing the Strikeforce and Bellator
13	(Pertinent portion of the		13	benchmarks we've discussed, correct?
14	record is read.)		14	A. Correct.
15	THE WITNESS: The regression		15	Q. And then Section B on the
16	shows that when controlling for		16	next page, page 163, paragraphs 249 and
17	all other things that could		17	250, that discusses the foreclosure
18	explain variations in fighter wage		18	benchmark that we just discussed,
19	shares, that the higher		19	correct?
20	foreclosure is causing lower		20	A. It is it is certainly
21	fighter wage shares, yes.		21	related to the one that we just
22	BY MR. ISAACSON:		22	discussed, but it is not identical.
23	Q. All right. And when you		23	Q. Well, for purposes of
24	use and you use you have three		24	damages, you let's just make sure I
	Page	15		Page 17
1	columns in Table 6, Tracked, Ranked,		1	have this right. For purposes of
2	Headliner.		2	estimating damages for the foreclosure
3	Do you see that?		3	regression benchmark, what you did was
4	A. Column 6 of, sorry?		4	look at the statistical relationship
5	Q. Table 6.		5	between Zuffa's foreclosure share and the
6	A. Oh, Table 6.		6	fighters' shares, the share revenue of to
7	Q. The table you've been		7	fighters over time, correct?
8	looking at.		8	A. Correct.
9	A. Yes.		9	Q. And for in looking at the
10	Q. You see you have three		10	statistical relationship between Zuffa's
11	columns, Tracked, Ranked, Headliner?		11	foreclosure share, for that foreclosure
12	A. Yes.		12	share, you used the regression that we
13	Q. When you when you		13	saw in Table 6?
14	calculate damages using Zuffa's		14	A. No, that's incorrect.
15	foreclosure share, you rely on that first		15	Q. Okay. Explain to me why
16	column, right, tracked fighters?		16	that's incorrect?
17	A. Correct.		17	A. As I as I explained in
18	Q. And then the next damages		18	Section B, I made a variation to the
19	model you have, I think you called it		19	model.
20	impact regression model for damages.		20	Q. Yeah, you're absolutely
				•
21 22 23 24	That that's where you take your model for one of your models for showing common impact and use that to reach a damages result, correct?		21 22 23 24	right. So let me ask rephrase the question here.  A. Okay.  Q. I think so for looking at



	Page 18		Page 20
1	Zuffa's foreclosure share, you used the	1	I think that my prior answer
2	regression in Table 6 but you made an	2	was correct, but it wasn't it wasn't
3	adjustment and you removed data points	3	precise, and I just want to be precise
4	for Strikeforce prior to its acquisition	4	about what it's capturing.
5	by Zuffa?	5	It is it is capturing
6	A. Correct.	6	the
7	Q. Okay. Thank you.	7	Q. When you say "it," you're
8	Then your next damages	8	talking about the foreclosure?
9	model, which is on the next page, page	9	A. The foreclosure share
10	164.	10	measure.
11	A. Yes.	11	Q. Okay.
12	Q. Impact regression model	12	A. Right. And how it relates
13	benchmark. The here you also use	13	to the challenged conduct. I think that
14	the in this benchmark in this	14	the answer I gave you might create the
15	analysis, you are also examining the	15	impression that all aspects of the
16	statistical relationship between the	16	challenged conduct were being captured
17	Zuffa foreclosure share and the fighters'	17	by by the foreclosure variable, and I
18	share, the share of revenues to fighters	18	just want to make it it clear that
19	over time, correct?	19	there are only certain aspects of the
20	A. Are we looking at Table 10?	20	challenged conduct that are being
21	Q. This would actually, I	21	captured by the foreclosure variable, and
22	think, tie to Table 11.	22	in that sense, the model is conservative
23	MR. CRAMER: 11.	23	in the sense that it is not it is not
24	THE WITNESS: Okay.	24	necessarily picking up the effect of all
	Page 19		Page 21
1	BY MR. ISAACSON:	1	elements of the challenged conduct, but
2	Q. You have your tables below	2	instead only it's really capturing
3	the sections.	3	certain restrictions that relate to
4	A. Sorry. Let me just let	4	exclusivity of the fighter contracts and
5	me just get this straight in my head.	5	the duration.
6	And before we move to this	6	So I just want to I just
7	one, something has just been troubling me	7	want to clarify that. I don't know if
8	with regard to a question you just asked	8	that if that was what you were asking,
9	a second ago, and I think I may have	9	but I just want to make sure that that
10	misunderstood the question. Is it okay	10	is
11	if I just if we can just get some	11	Q. Well, we're still going to
12	clarification.	12	get to that subject at some point.
13	Q. Sure.	13	A. Okay.
14	A. Because I just want the	14	Q. So I appreciate the preview.
15	record to be sure.	15	A. Okay. So now now, let's
16	You asked me if if the	16	come back to I'm sorry for that
17	foreclosure measure is capturing the	17	digression, but
18	challenged conduct or something to that	18	Q. All right. So your fourth
19	effect.	19	measure of damages is also based on the
20	Q. What do you want to say	20	statistical relationship between a Zuffa
21	about just say what you want to say.	21	foreclosure share and the fighter shares,
22	A. Okay. Let me just tell you	22	the share of revenues that went to labor,
23	because I just don't want there to be	23	correct?
24	any any misunderstanding.	24	A. So we're in Subsection C on



	Page 22		Page 24
1 16	54?	1	to the identity class.
2	Q. Yes.	2	Q. All right. There are two
3	A. Okay. So this this	3	econometric models that you use for
	ethod, as the language suggests, goes	4	purposes of the common impact analysis,
	ack and makes use of the pre-Strikeforce	5	am I correct about that?
	equisition data to inform the parameter	6	MR. CRAMER: Objection to
	the	7	form.
8	Q. What's the	8	THE WITNESS: Can I hear
9	A. I'm sorry, the foreclosure	9	that back? I'm sorry.
	are parameter in the regression.	10	(Pertinent portion of the
11	Q. Both the both of these	11	record is read.)
	gression benchmarks look at the	12	THE WITNESS: Are you I'm
	atistical relationship between Zuffa's	13	going to interpret the question,
	reclosure share and its and the	14	unless it's wrong, with now you're
	ghters' share to fighters over time,	15	referring to the bout class
	at one excludes the Strikeforce the	16	subsection of the common impact?
	ta before the Strikeforce acquisition	17	BY MR. ISAACSON:
	ad one includes it?	18	Q. Yes.
19 an		19	
20	A. Exactly.		
	Q. And for common impact for	20 21	quite put it that way.
	jury in terms of actual modeling, and		Q. All right. Well, let me ask
22 nc	ow I'm just referring to the bout class.	22	you. So if you look at page 151 of your
	A. So are we leaving damages?	23	report, there's a section on Econometric
24	Q. Yes.	24	Evidence of a Compensation Structure?
	Page 23		Page 25
1	A. We're going to common impact	1	A. Yes, I see that section.
	OW.	2	Q. And broadly speaking, the
3	Q. Yes.	3	first type of econometric evidence that
4	A. Okay.	4	you looked at was you performed
5	Q. Referring to just and I	5	regressions to determine whether gains or
	ould say those damages models that we	6	losses in compensation amongst fighters
	st went over were just for the bout	7	were broadly shared across the bout
	ass and not the identity class?	8	class.
9	A. I wouldn't put it exactly	9	Do I have that right?
	at way.	10	MR. CRAMER: You're asking
11	Q. How would you put it?	11	him to put aside the foreclosure
12	A. Well, if you recall, I used	12	regression?
	e results from the bout class	13	MR. ISAACSON: I'm just
	gression to inform the the deflation	14	talking about common impact, yes.
	ctor for the identity class as well.	15	MR. CRAMER: Okay.
16	Q. But the four the four	16	Objection, misstates the system.
	odels we just described estimate damages	17	THE WITNESS: As part of the
	r the bout class rather than the	18	two-part proof of common impact,
	entity class; is that correct?	19	the in the second part of the
20	A. I think that when the model	20	proof, I used econometric methods
	pears when the write-up appears in	21	as well as records evidence to
	e bout class section it's speaking to	22	demonstrate a pricing structure.
	out class, and when the model invoked in	23	But I think that the
24 th	e identity class section, it's speaking	24	question assumes away the

	Page 26		Page 28
1	existence of another econometric	1	
1 2		1 2	than looking at documents, the first
3	model that undergirds the first	3	econometric technique you employed was to
4	part of the two-part proof;	4	look whether gains or losses in
5	namely, the demonstration of a		compensation were shared across the bout
	general wage effect.	5	class, and the second is the econometric
6	The two-part proof is	6	methods that are in Section C of your
7	designed to show that first there	7	report on page 154; is that correct?
8	is a general wage effect, and 2,	8	A. I just want to clarify, and
9	there is a mechanism by which that	9	I don't know if this is on purpose, but
10	general wage effect gets	10	the first proof involves two econometric
11	transmitted to all members of the	11	elements: There's an econometric element
12	class.	12	to part 1, which is establishing a
13	BY MR. ISAACSON:	13	generalized wage effect relating to the
14	Q. All right. So I'm just	14	foreclosure share, and the second part is
15	looking at your section of Econometric	15	to show that there was a mechanism by
16	Evidence of a Compensation Structure.	16	which that generalized wage effect gets
17	All right. So I'm trying just the	17	transmitted to the to the entire bout
18	first thing that you have in there, if I	18	class. So
19	have it right, are regressions that you	19	Q. I was trying to encompass
20	performed to determine whether gains or	20	both of those because I'm doing these in
21	losses in compensation were broadly	21	summary form.
22	shared across the bout class?	22	So you know but that's
23	A. I think that's fair.	23	what's in your Section 2, paragraphs 227
24	Q. Okay. And that those	24	to 229 that you just described, correct?
	Page 27		Page 29
1	regressions don't depend on your	1	A. Correct.
2	foreclosure analysis; is that correct?	2	Q. Okay. And the results are
3	A. That is correct. They're	3	reported at Table 7?
4	doing something different.	4	A. Well, the results for the
5	Q. All right. The the next	5	for the second part, and this is just
6	type of econometric method are is	6	one one result of the second part, so
7	found on page 154, the standard	7	I wouldn't say that Table 7 is the is
8	econometric methods that the vast	8	the summary or end-all, be-all of this
9	majority of bout class members receive	9	two-part proof. It's a fairly elaborate
10	lower compensation than they would have	10	proof and it unfolds in multiple parts.
11	in the but-for world. Am I right, that	11	Q. All right. So Table 7 is a
12	would be the next piece of econometric	12	result of the regressions that you
13	evidence that you look at?	13	describe in Section 2, paragraphs 227 to
14	A. So just to be clear, we're	14	229?
15	moving to a different method now	15	A. It is a result, yes. It is
16	Q. Yes.	16	a result.
17	A in demonstrating common	17	Q. And the next econometric
18	impact?	18	method that you describe is found in the
19	•	19	next section, Section C, correct?
20		20	A. Correct.
21	A. And I'm going to employ a	21	
22	different econometric technique to test	22	Q. All right. And that's where
23	for common impact.	23	you did use the regression models from
	Q. Right. The first technique		the from the foreclosure analysis to
24	that you econometric technique rather	24	predict but-for compensation share for



	Page 30	)	Page 32	2
1	each fighter, correct?	1	A. Correct.	T
2	A. Correct.	2	Q. Now, when you say the	+
3	Q. Okay. And that's where I go	3	foreclosure shares were not as high as	
4	back to Table 6, which is on page 125,	4	they otherwise were, do you mean the full	ı
5	and this is one of the regression outputs	5	foreclosure shares that are in the	
6	that you used to predict the	6	regression or could it be any piece of	ı
7	compensation the compensation for each	7	the foreclosure share?	
8	fighter in the absence of the	8	MR. CRAMER: Objection to	
9	antitrust alleged antitrust	9	form.	
10	violations; is that correct?	10	THE WITNESS: For each	
11	A. Can I hear that back? I'm	11	regression there's three different	
12	sorry.	12	specifications shown in Table 6.	
13	(Pertinent portion of the	13	There is a different foreclosure	
14	record is read.)	14	share at any point in time	ı
15	THE WITNESS: So I wouldn't	15	depending upon the market	ı
16	exactly put it that way. I just	16	definition that I used. And also	ı
17	think the absence of the antitrust	17	depending on the weighting method	
18	violations is too broad given that	18	that I used.	ı
19	the set of actions encompassed in	19	So whichever whichever	ı
20	the challenged conduct is broader	20	assumption I used, that is	ı
21	than the set of of actions that	21	associated with a precise measure	ı
22	are being captured by this	22	of foreclosure at a given point in	ı
23	regression approach.	23	time, and what the simulation is	
24	BY MR. ISAACSON:	24	doing, it's taking the parameters	ı
	Page 31		Page 33	3
1	Q. All right. So would I have	1	of the regression model and	
2	it correct if I said that that you	2	asking, what would that fighter	ı
3	used the regression that's found at Table	3	have been paid as a percentage of	ı
4	6, page 125, as one of the regression	4	event revenue had the foreclosure	ı
5	outputs that you used to predict the	5	share not been what it actually	ı
6	compensation absent the alleged	6	was, but instead would have been	ı
7	challenged conduct?	7	something else, and I believe for	ı
8	A. Again, I wouldn't I	8	Table 8 I'm positing a world in	ı
9	wouldn't quite put it that way.	9	which the foreclosure share goes	ı
10	Q. Well, absent I've tried	10	to zero.	ı
11	absent antitrust violations and I've	11	BY MR. ISAACSON:	
12	tried absent challenged conduct. Can you	12	Q. All right. The I think	ı
13	give me something else? Absent what?	13	it was helpful, but I don't think it's	ı
14	A. Absent how about in a	14	understandable to anybody outside of this	ı
15	but-for world where in which the	15	room, so excuse me if we repeat some of	ı
16	foreclosure share wasn't as high as it	16	this.	ı
17	was in the actual one.	17	The in each of your	ı
18	Q. All right. So in Table	18	individual regressions, and I understand	
19	in for purposes of determining common	19	you have regressions for different	
20	impact, you used the regression on Table	20	markets, many different regressions, so	
21	6, page 125, to predict the compensation	21	there will be a range there will be a	
22	that would exist for each fighter if	22	number of foreclosure shares depending on	
23	foreclosure shares were not as high as	23	the regressions.	
24	they actually were?	24	When you are talking about a	



	Page 34		Page 36
1	but-for world of a lower foreclosure	1	percentage.
2	share, are you referring to the specific	2	A. We're not going to have it.
3	foreclosure share that you would find in	3	But I keep hearing did I have it or did I
4	one of your regressions as opposed to	4	take a percentage of it. The answer is
5	some part of that, you know, say half of	5	no. I didn't I didn't do that. No
6	it?	6	simulation halves the foreclosure share.
7	MR. CRAMER: Objection to	7	There are three simulations: One
8	form.	8	simulation projects what the fighter wage
9	THE WITNESS: I don't	9	shares would be at zero percent
10	understand the question. I'm	10	foreclosure share, another simulation
11	•	11	projects what fighter wage shares would
12	sorry. BY MR. ISAACSON:	12	be at 20 percent foreclosure levels, and
13	Q. So and that's my fault,	13	another simulation projects what fighter
14	but let me keep trying.	14	wage shares would be at 30 percent
15	The when you refer to the	15	foreclosure.
16	but-for world of a lower foreclosure	16	So I'm getting tripped up on
17		17	do I does the regression halve it.
18	share, do you mean the full lower foreclosure share that would be specified	18	The regression doesn't halve anything.
19	<u>*</u>	19	Halve as in cut in half. The regression
20	in whatever regression you're looking at as opposed to some fraction of it?	20	
21	**	21	takes the data as it is, right?
22	A. No, I wouldn't put it that	22	<ul><li>Q. Right.</li><li>A. It understands the</li></ul>
23	Way.	23	
24	Q. So for example, if I was looking at a just one of your	24	relationships between foreclosure share and wage share controlling for all
24	Page 35	24	Page 37
	_		
1	regressions and it specified a	1	other all other things, right, and
2	foreclosure share, give me an example of	2	then it's done. Regression is done.
3	a foreclosure share.	3	The regression doesn't get
4	A. Well, the question I'm	4	to say what the but-for world looks like.
5	just trying the regression doesn't	5	I'm using the regression parameters to
6	Q. Help me out and give me an	6	project what fighter wage shares would be
7	example of a foreclosure share, a number	7	in a but-for world in which the
8	that would express it.	8	foreclosure share was either zero
9	A. 90 percent.	9	percent, 20 percent or 30 percent.
10	Q. Okay.	10	Q. All right. The so if you
11	A. It could have been	11	had a regression that specified a
12	90 percent at a given point in time	12	foreclosure share of 90 percent,
13	depending upon the market definition used	13	depending on which model you were using,
14	and depending upon the weighting method	14	your but-for world would have a
15	used.	15	foreclosure percent of zero percent,
16	Q. Right.	16	20 percent or 30 percent, do I have that
17	A. The actual foreclosure at a	17	correct?
18	given point in time could have been	18	A. No, you don't have it right.
19	90 percent, that would have entered in on	19	Q. Hum?
20	the right-hand side of regression, but as	20	A. You don't have it right.
21	we as we move to the but-for	21	I'm getting tripped up on the word if the
22	world we're going	22	regression specifies a foreclosure share
23	Q. Let me ask a question	23	of 90 percent.
24	because all I asked you for was a	24	Q. Well, let me take that out

	Page 38		Page 40	T
1	of the question then.	1	regression doesn't get to specify, the	
2	For each of your models, you	2	regression takes the foreclosure share as	
3	have a but-for world where the	3	an input.	
4	foreclosure share for Zuffa is either	4	Q. So regardless of the measure	t
5	zero percent, 20 percent or 30 percent.	5	of foreclosure share that's generated by	
6	Do I have that right?	6	any specific model, the world you are	
7	A. I think you've got that	7	going to assume for purposes of	
8	right.	8	estimating impact or damages that the	
9	Q. Okay. And that's regardless	9	actual foreclosure share of Zuffa will be	
10	for what foreclosure is specified in the	10	zero, 20 percent or 30 percent depending	
11	regression?	11	on the model?	
12	A. I'm just I wish we could	12	MR. CRAMER: Objection to	
13	use a different word than specified.	13	form.	
14	Q. What word would you use?	14	BY MR. ISAACSON:	
15		15	Q. That's correct?	
16	$\varepsilon$	16	MR. CRAMER: Objection to	
17	to specify the foreclosure share, just as the regression doesn't get to specify how	17	form.	
18		1 / 18	THE WITNESS: It was close.	
19	many punches a fighter threw, right, or	19		
20	how many successful punches.	l <b>i</b>	You said the model to start the	
	Q. Tell me what word you want	20	question, and just again to be	
21 22	me to use.	21	to be specific, the regression	
	A. So the regression takes the	22	the regression doesn't get to pick	+
23	data as the world presents it. The	23	the foreclosure share. The	
24		24	foreclosure share flows from which	-
	Page 39		Page 41	
1	Q. Foreclosure is an output of	1	market definition and which	
2	the regression?	2	weighting method I use, right?	
3	A. No, it's an input. It's an	3	That that will generate a	
4	input.	4	foreclosure share that gets spit	
5	Q. Okay. So	5	out, I think, of a Microsoft Excel	
6	A. But the regression doesn't	6	file, and that foreclosure share	
7	get to doesn't get to pick what	7	is going to be spit out alongside	
8	foreclosure is or specify it. Maybe I'm	8	each observation in the dataset.	
9	misinterpreting what you mean by	9	The regression finds a	
10	Q. I'm just trying to find a	10	relationship between that	
11		11	foreclosure share and the	
12	A. The regression takes the	12	fighters' wage share controlling	
13	data as the world presents it and looks	13	for all other things and then the	
14	for relationships between those data.	14	regression is done.	∔
15		15	At that point, I I can	
16	A. All right? So it doesn't	16	make use of the parameters that	
17	specify. The maybe what would be	17	come out of the regression to	
18	helpful is that the market definition	18	project what a fighter's wage	
19	the market definition that I choose and	19	share would be in a but-for world	
20	the weights that I apply generate a	20	in which the foreclosure share was	
21	measure of foreclosure share.	21	lower.	
22	Q. Okay.	22	Sorry, I'm being I'm	
23	A. Right? And then I'm going	23	being attacked here by a gnat.	
24		24	And thank you.	1



1	Page 42		Page 44
1	And I use three different	1	is there any measure of foreclosure where
2	scenarios: Zero percent,	2	a 12-month contract, in your opinion,
3	20 percent and 30 percent.	3	would not result in the zero or near zero
4	BY MR. ISAACSON:	4	foreclosure?
5	Q. Now, when you use a world in	5	MR. CRAMER: Objection to
6	which there Zuffa has zero percent	6	form.
7	foreclosure, how does that translate into	7	THE WITNESS: Let me hear it
8	any a market share for Zuffa?	8	back. But I don't think I
9	A. Oh, it could accommodate	9	understood it, but let me just
10	·	10	hear it.
11		11	BY MR. ISAACSON:
12	J I I I I	12	Q. Well, because you just told
13	$\mathcal{E}$	13	me about how your 30-month baseline, and
14	· · · · · · · · · · · · · · · · · · ·	14	you confined your answer to that
15		15	particular measure of foreclosure.
16	· •	16	And I'm asking you, is there
17	3	17	any measure of foreclosure where a
18	8	18	12-month contract for all Zuffa fighters
19		19	would not result in zero or near zero
20		20	foreclosure?
21		21	MR. CRAMER: Objection to
22		22	form.
23	be zero or close to zero?	23	THE WITNESS: Well,
24		24	certainly not if you use 30 months
	Page 43		Page 45
1	form.	1	as the cutoff, but if if the
2	THE WITNESS: So I I deem	2	court, for example, were to deem
3	a fighter to be foreclosed, or to	3	that 12 months with an
4	be working or employed pursuant to	4	exclusion with an exclusive
5	an exclusionary contract if, as	5	arrangement were exclusionary,
6	you know, the contract is	6	then contracts with 12 months
7	exclusive and if the duration	7	would be exclusionary. It's
8	exceeds a certain number of	8	tautological. It depends on where
9	months. I use 30 months I think	9	you draw the cutoff and what
10		10	what conditions you require for
11	J J 11	11	for one to conclude that a
12		12	contract was exclusionary.
13	baseline or cutoff as a measure	13	BY MR. ISAACSON:
14		14	Q. All right. So I'm not
15		15	asking you any questions about what
16	, ,	16	courts rule, I'm asking you questions
17	1 5	17	that come out of your models.
18	12 months, then by construction,	18	Is there any measure of
19	, , , , , , , , , , , , , , , , , , ,	19	foreclosure in any of your models where a
20		20	12-month contract for all Zuffa fighters
21		21	would not result in zero or near zero
22		22	foreclosure?
23		23	MR. CRAMER: Objection to
24	Q. All right. Is there any	24	form. Asked and answered.



	Page 46			Page	48
1	THE WITNESS: I'd have to	1	share?	1 4 9 0	
1 2		1 2			
3	think about it some more, but I	3	MR. CRAMER: I'm going to		
4	think I I think I gave you I	4	object to the extent it calls for		
5	think I gave you what the answer was, which is that it depends	5	a legal conclusion.		
6		6	But you can answer. And asked and answered.		
7	on on how you draw the the line.	7	THE WITNESS: I think I've		
8	BY MR. ISAACSON:	8	covered I've covered the basis.		
9	Q. All right. And how would	9	I think that the most the most		
10	you define zero percent foreclosure? You	10	obvious way to construct it is by		
11	said some of your models assume zero	11	coming up with a baseline in terms		
12	percent foreclosure. How do you define	12	of number of months in which an		
13	zero percent foreclosure?	13	exclusive contract is deemed		
14	A. So no model assumes it.	14	exclusionary and positing a world		
15	Just to be clear, I'm projecting but-for	15	in which Zuffa's contracts come		
16	worlds in which the foreclosure share is	16	under that that cutoff. They		
17	zero, 20 or 30 percent. But I'm	17	could be 15 months long, they		
18	interpreting the question as how could	18	could be 17 months long, they		
19	Zuffa get to zero percent foreclosure?	19	BY MR. ISAACSON:		
20	Q. Right. How would you define	20	Q. All right. And that cutoff		
21	Zuffa with zero percent foreclosure?	21	that needs to be posited, is that a legal		
22	A. It can get you could get	22	cutoff or is that a matter of economics?		
23	to zero percent foreclosure in myriad	23	MR. CRAMER: Objection to		
24	ways. So I'm not I'm not specifying	24	form.		
	Page 47		101111	Page	49
1		1	THE WITNESS. 141:1. '4'-	rage	10
1	exactly how you get there. I can give	1	THE WITNESS: I think it is		
2	you examples, I think we just did, in	2	ultimately a legal decision, but		
3	which the legal standard is 30 percent	3	it can be informed through		
4	30 months sorry. If the legal	4   5	economics. I hope economics can inform the law at times.		
5	standard were 30 months and if counter-	6	BY MR. ISAACSON:		
7	factually all of well, and if Zuffa's contracts all were 12-month contracts,	7			
8	· · · · · · · · · · · · · · · · · · ·	8	Q. All right. You mentioned reducing the baseline number of months		
9	then the foreclosure share by my measure would be zero percent.	9	for the exclusive contracts, and you	•	
10	But that's just one way.	10	mentioned divesting fighters to to an		
11	There are there are many there are	11	independent organization from Zuffa.		
12	many ways to get your foreclosure share	12	Are there any other examples		
13	down. You can you can divest	13	that you can think of as to how Zuffa		
14	divest fighters and send send fighters	14	could reach zero or near zero		
15	to a to an independent organization	15	foreclosure?		
16	thereby decreasing your market share and	16	A. Sure. I can keep on coming		
17	thereby decreasing your foreclosure	17	up with examples.		
18	share.	18	One example would be that		
19	There's there are many	19	there's no exclusivity provision in the		
20	ways to get to to a lower foreclosure	20	contracts.		
21	share.	21	Q. All right. That's one. Are		
22	Q. All right. So can you give	22	there any other examples?		
23	me some other examples of ways that Zuffa	23	MR. CRAMER: Asked and		
24	could get to zero percent foreclosure	24	answered, form.		
	. G	1			



	Dana 50				<b>CO</b>
	Page 58			age	60
1	find it reasonable to go to an	1	understand. So what I if I understand		
2	organization that cannot afford him or	2	what you're saying is, in your opinion,		
3	her any quality opponents to fight. If	3	there's not a sufficient number of		
4	you can't fight a highly-ranked opponent,	4	reasonable substitutes of fighters		
5	you have no chance of moving up the	5	outside the tracked markets and outside		
6	rankings.	6	the ranked market to affect your market		
7	And so I'm answering a	7	definition?		
8	related question, which I think is the	8	A. I wouldn't put it that way.		
9	more important question. And I'll leave	9	Q. I understand you were		
10	it at that.	10	saying before I said there are no		
11	Q. Okay. So in general it's	11	reasonable substitutes and you're saying		
12	going to help me today if you answer my	12	one doesn't matter. The so tell me		
13	questions and not the related questions	13	how you would put it.		
14	you think are more important. You'll	14	A. There would have to be		
15	have the opportunity to do the related	15	enough fighters in your in your		
16	questions you think are more important	16	defined set that would consider these		
17	with your counsel, but I'm under time	17	outside options reasonable so as to		
18	limits.	18	defeat the wage decrease so as to		
19	And I understand you gave an	19	render the wage decrease unprofitable.		
20	explanation, but was the answer to my	20	Q. Okay. All right. So just		
21	question, yes, that in your opinion there	21	to sum it up, in your opinion, there's		
22	are no reasonable substitutes for the	22	not a sufficient number of reasonable		
23	fighters outside of the tracked market	23	substitutes of fighters outside the		
24	and outside the ranked market?	24	tracked market or outside the ranked		
	Page 59		Р	age	61
1	MR. CRAMER: Objection to	1	market to defeat a wage decrease if that		
2	form.	2	were to happen?		
3	THE WITNESS: I'm saying for	3	A. I'd like to put it back in		
4	certain fighters inside of that	4	my own words, that once you've defined		
5	category or class, depending on	5	the set as I've done it, there wouldn't		
6	how you define the market, there	6	be sufficient defection or substitution		
7	might be what that one fighter	7	away to forums or venues outside of the		
8	considers to be a reasonable	8	definition by fighters inside of the		
9	substitute, but that doesn't end	9	market so as to render this hypothetical		
10	the inquiry.	10	wage decrease unprofitable.		
11	The question is would there	11	Q. Right. Okay. Now, is it		
12	be a sufficient number of fighters	12	would it be the case that, in general,		
13	inside of that definition such	13	fighters outside of the ranked and		
14	that a hypothetical monopsonist	14	tracked markets would not be affected by		
15	trying to exercise market power	15	wage increases within those markets?		
16	would be would be defeated in	16	MR. CRAMER: Form.		
17	the sense that it would suffer a	17	THE WITNESS: That is		
18	profit loss by trying to push	18	that is outside I believe of the		
19	wages below competitive wages.	19	scope of anything that that		
20	One fighter within the set	20	I've studied. I'd have to think		
21	finding an outlet to be	21	about it. But it's unrelated to		
22	reasonable, right, doesn't cut it.	22	what I think the relevant question		
23	BY MR. ISAACSON:	23	is for determining the relevant		
24	Q. The okay. I think I	24	product market the relevant		



	Page 62		Page 64
1	input market.	1	Q. By how much.
2	MR. CRAMER: Is it a good	2	A. Well, under that second
3	time for a break? We've been	3	approach, I compare what a fighter's
4	going for about an hour. I need	4	actual wage share was against his or her
5	to use the men's room.	5	but-for wage share based on the
6	MR. ISAACSON: Sure.	6	parameters of the regression model, and
7	MR. CRAMER: Thank you.	7	an assumed but-for foreclosure level.
8	THE VIDEOGRAPHER: The time	8	Q. And so within your data,
9	is 10:22 AM. We are going off the	9	would it show what, for example,
10	record.	10	Mr. Fitch's actual wage was compared to
11	(Recess.)	11	the assumed but-for foreclosure level?
12	THE VIDEOGRAPHER: The time	12	MR. CRAMER: Objection to
13	is 10:33 AM. We are back on the	13	form. I don't think that's what
14	record.	14	he just testified.
15	BY MR. ISAACSON:	15	THE WITNESS: Can I hear
16	Q. So using the models in your	16	that back?
17	report, can you tell me how you would go	17	BY MR. ISAACSON:
18	about estimating the damages suffered by	18	Q. Well, let me put it
19	the individual plaintiffs in this case?	19	differently.
20	Just take an example, John Fitch.	20	A. Okay.
21	A. So I haven't done that and	21	Q. You know, under your
22	I'd have to think about it. I interpret	22	second under that approach, do you
23	that to mean how I would go about doing	23	have within your data what Mr. Fitch
24	an allocation of aggregate damages, and	24	would have earned using your but-for
	Page 63		Page 65
1	that would be the closest thing to	1	foreclosure shares?
2	getting to an individual underpayment.	2	A. That particular model can
3	But I haven't I haven't performed that	3	project what Mr. Fitch would have earned
4	yet and so I really don't I can't	4	on a particular fight given an assumed
5	offer you a concrete way of how I'd do it	5	but-for foreclosure share.
6	at this time.	6	Q. And in your impact model,
7	Q. The if you look at your	7	your assumed foreclosure share is zero
8	impact analysis, which does show impact	8	percent or 20 percent, is that right, you
9	as to individual fighters, correct?	9	look at it both ways?
10	A. One of the two methods of	10	A. You'd have to take me back
11	the impact section looks at from the	11	to the page, but my I thought that I
12	perspective of the individual fighters,	12	had maybe I'm getting confused for
13	yes.	13	impact and anticompetitive effects, but I
14	Q. So if you were going if I	14	believe that I've I've performed
15	wanted to know the individual impact	15	projections at zero, 20 percent and
16	using that method of the alleged	16	30 percent.
17	conduct on Mr. Fitch, how would I go	17	Q. If you just look at Table 8,
18	about that?	18	which is on page 155.
19	MR. CRAMER: Objection to	19	A. Okay.
20	the term "individual impact" as	20	MR. CRAMER: And I'll note
21	being vague. You mean whether or	21	for the record there's an errata
22	not he was impacted or by how	22	that adjusts Table 8.
23	much?	23	MR. ISAACSON: Help me out
24	BY MR. ISAACSON:	24	which errata we want to look at.



	Page 66		Page 68
1	MR. CRAMER: The one you	1	appropriate amount of damages in this
2	got.	2	case?
3	MR. ISAACSON: Oh, yes, yes,	3	A. I think the appropriate
4	yes. I don't know if that affects	4	amount of damages would span the range
5	this, but	5	that I offered.
6	BY MR. ISAACSON:	6	Q. But there's no number within
7	Q. Let's look at Exhibit 3,	7	that range that you have you don't
8	line item 77, which is page 4.	8	have an opinion as to any specific number
9	A. Got it.	9	within the range of damages that you've
10	Q. The two but-for foreclosure	10	estimated that's the appropriate number
11	shares you looked at for impact analysis	11	of damages in this case?
12	were zero and 20 percent; is that right?	12	MR. CRAMER: That misstates
13	A. Oh, in this table, yes. For	13	the testimony. Form.
14	the purpose of performing this test, I	14	THE WITNESS: I think
15	used zero and 20 percent, correct.	15	that that certain methods were
16	Q. The and for your damages	16	designed in a way to be especially
17	analysis, excluding your Bellator and	17	conservative. And so to that
18	Strikeforce benchmarks, you used a	18	extent, it may it may not
19	but-for foreclosure share of 20 percent	19	capture the the full impact.
20	or 30 percent; is that right?	20	I also will note again that
21	A. I used those and it's	21	I'm with respect to these
22	possible that I also projected damages in	22	regression based approaches, it's
23	a world in which in a but-for world in	23	turning entirely on on one
24	which foreclosure was set to zero.	24	mechanism; namely, funneling
	Page 67		Page 69
1	Q. All right. In terms of	1	fighters through these
2	actual damage estimates you state in your	2	exclusionary fighter contracts,
3	report, do you use either but-for	3	and because it does not capture
4	20 percent or 30 percent rather than zero	4	other forms of the challenged
5	percent?	5	conduct, it's going to understate
6	A. I'd have to go back and	6	what total damages are.
7	check the report.	7	But I'm I'm loath at this
8	Q. You know, one question I	8	point to say that I I like one
9	should ask you before the day is over, so	9	number in that range. I think
10	let's do it now.	10	I think the range covers the
11	You have different damages	11	reasonable range of what of
12	numbers reported. What is your opinion	12	what the damages are in this case.
13	of the amount of damages in this case?	13	BY MR. ISAACSON:
14	A. I think that all the methods	14	Q. And within that range, you
15	that I put forward are reasonable and	15	would not give an opinion as to what's
16	viable and are economically sound. It's	16	the appropriate amount of damages
17	hard for me to say that I'm partial to	17	within that range you're not going to
18	one over the other. I realize that	18	give an opinion about what's the
19	there's a range, but I think they're all	19	appropriate range the appropriate
20	good.	20	number of damages, any number within that
21	Q. And I understand that you	21	range is fine to you?
22	believe they're all good. Within that	22	A. I don't think any number
23	range, do you have an opinion as to	23	within the range. I don't think that was
24	what's the appropriate method	24	my testimony. I think that I've I've

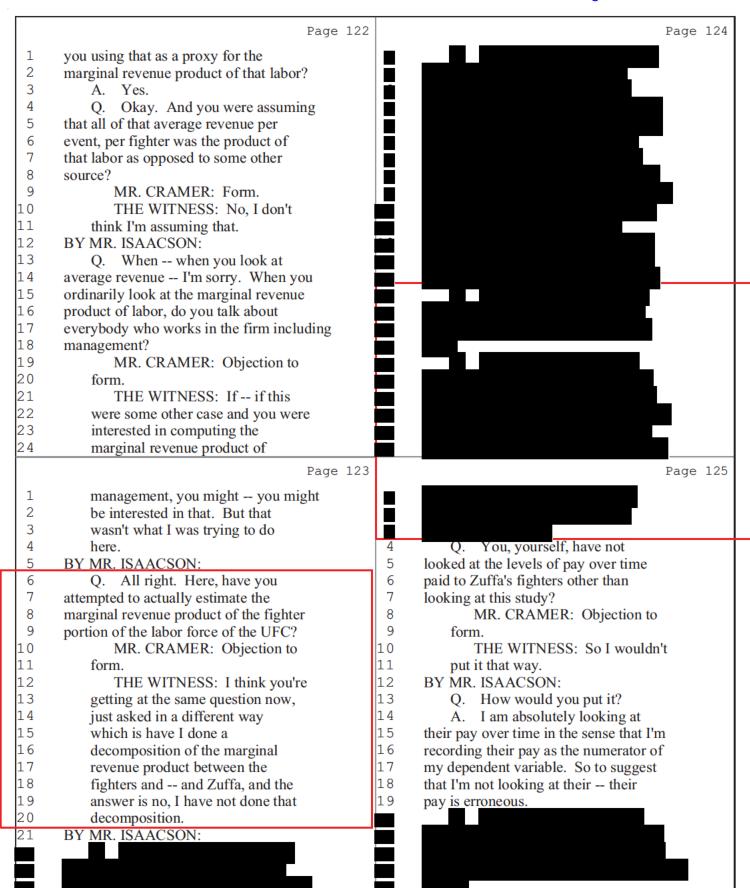


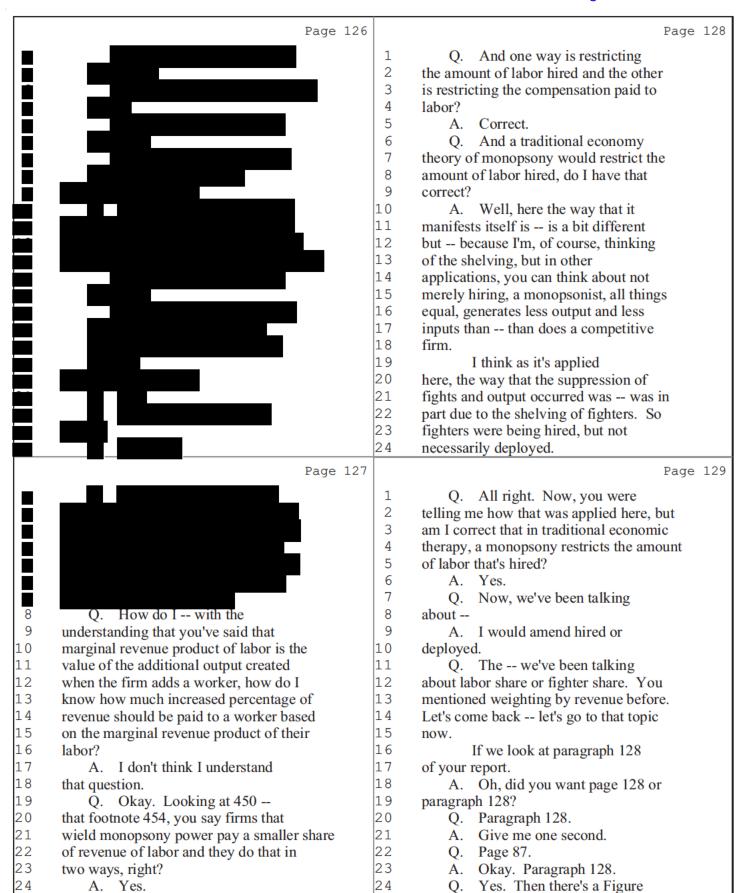
	5 00		D 100
	Page 98		Page 100
1	Q. You have not done any impact	1	establish the fact of common impact.
2	models or damages models where you	2	Q. And the results showed that
3	where you use as an input the actual	3	individual fighter compensation per event
4	amount of fighter pay as opposed to the	4	moves together with per event
5	fighter share?	5	compensation paid to other fighters; is
6	A. I don't think that's true.	6	that correct?
7	I have in my impact section, I've run	7	A. Yes.
8	a model on levels, not related to	8	Q. Okay. And while it
9	foreclosure share, but levels of fighters	9	establishes that the compensation moves
10		10	together, the output of that model does
11 12	P	11	not actually demonstrate injury to any
12	5	12	specific fighter; is that correct?
13		13	MR. CRAMER: Objection to
14	, , , , , , , , , , , , , , , , , , , ,	14	form.
15		15	THE WITNESS: I would say
16		16	the output of that model in
17	3	17	conjunction with other steps in
18	3	18	that two-part proof show impact to
19	,	19	all fighters.
20		20	BY MR. ISAACSON:
21 22	fact of injury or the amount of damages		
22	that rely on the actual salaries that		
23	are not salaries, the actual		
24	compensation paid to fighters as opposed		
	Page 99		Page 101
1	to the fighters' share?		
2	MR. CRAMER: Objection to		
3	form.		
4	THE WITNESS: No, I'm going		
5	to I'm going to say no to that		
6	one. I thought I just clarified.		
7	BY MR. ISAACSON:		
8	Q. Just say no and I'll ask you		
9	a follow-up question.		
10	A. Fine. No.		
11	Q. The when you look at		
12	actual fighter pay, that's when you		
13	were when you used actual fighter pay		
14	as opposed to fighter share, that's when		
15	you performed regressions to determine		
16	whether gains or losses in a compensation		
17	were broadly shared across the bout		
18	class, correct?		
19	A. Correct, as part of an		
20	impact model.		
21	Q. Right. And does that model		
22	generate an amount of impact or amount of		
23	damages?		
24	A. No, that model was to		

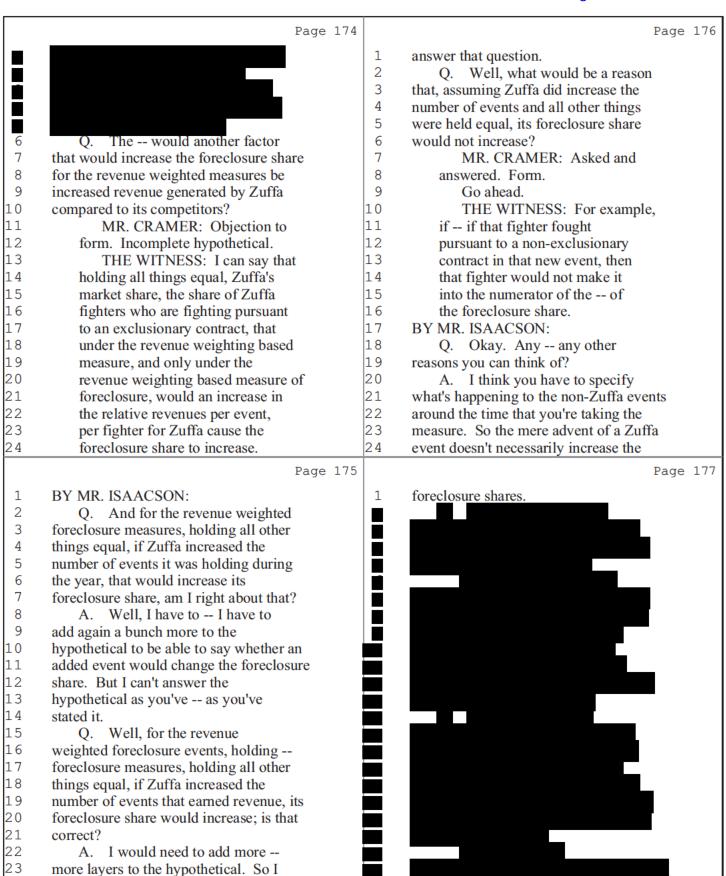
	Page	102	Page 104
		1	models aren't taking into consideration
		2	the fighters' pay, I have to I have
3	A. This analysis must be	3	to I have to reject that.
4	understood in conjunction with other	4	Q. All right. So there is a
5	analyses in the section, the totality of	5	variable in each of your impact models
6	which establishes common impact.	6	and damages models that actually estimate
7	Q. I agree with that. What I'm	7	a dollar effect on fighters that relies
8	saying is this this model by itself	8	on the fighters' share as opposed to the
9	would not show any injury to any specific	9	absolute level of compensation of the
10	fighter, it would have it would have	10	fighter. Do I have that right? What you
11	to be considered in conjunction with	11	call the variable on the left-hand side.
12	other analysis that you've done?	12	A. Yeah, the dependent variable
13	A. I think that's fair. I	13	in certain models is expressed in terms
14	would not I would not offer this model	14	of fighter's share, and to figure out
15	by itself as proof of common impact. I	15	what the effect is on a fighter's
16	would offer it, as I did, in conjunction	16	absolute pay, it's a ministerial change
17	with other models in the section, and	17	to convert from an actual fighter share
18	record evidence, of course.	18	to a but-for fighter's share, and then
19	Q. Right. So the models that	19	knowing what the event revenue was to
20	actually conclude by themselves that	20	convert to a but-for fighter pay.
21	there was damage or impact to individual	21	So I think that I think
22	fighters are all expressed in terms of	22	that to say that it's it's not making
23	fighters' share and don't rely on data	23	use of actual fighter pay just misses
24	but actual fighter pay; is that correct?	24	what's what's going on.
	Page	103	Page 105
1	MR. CRAMER: Objection to	1	Q. All right. So on page 155,
2	form.	2	Table 8.
3	THE WITNESS: No, that's not	3	A. Okay.
4	correct.	4	Q. Which reports on a
5	BY MR. ISAACSON:	5	regression you did for impact. The
6	Q. The models that show actual	6	dependent variable there was the
7	impact or damages by themselves all are	7	fighter's share of revenue rather than
8	expressed in terms of the fighters' share	8	the absolute level of compensation, am I
9	of revenue, correct?	9	correct?
10	A. I wouldn't put it that way	10	A. Correct.
11	either.	11	Q. Okay. And the same would be
12	Q. Okay. For each of those	12	true for each of the regressions in your
13	models you were looking at what the	13	damages models; is that correct?
14	fighter share of revenue actually was	14	A. I believe that's fair, that
15	compared to what it would be in the	15	the dependent variable in those models
16	but-for world using the models that	16	was fighter share of revenues.
17	you've relied on, correct?	17	Q. I'm going to take a big
18	A. For certain models, the	18	chance here and ask if you can explain
19	left-hand side variable of the regression	19	for our audience what you mean by a
20	was expressed in terms of fighter share	20	dependent variable.
21	as opposed to absolute level.	21	A. Sure. So the dependent
22	But I want to make clear for	22	variable is the variable that we are
23	the record that the numerator is the	23	trying to understand and explain what
24	fighters' pay. So when you say the	24	what drives it to to move around. And

	- 100		- 100
	Page 106		Page 108
1	so we you'll also hear the expression	1	that in Arizona Travel Nurses?
2	the left-hand side variable, but but	2	A. Yeah, it's an old case, but
3	it's it's the variable of interest.	3	I some some faint memories are
4	We are we are trying to to	4	coming back, and I I believe that
5	understand the world through through	5	to to establish similar things, common
6	that variable and to explain what causes	6	impact there, we were we were looking
7	it to vary.	7	at the bill rate as the denominator,
8	Q. All right. So I'd like I	8	that's how much the hospital was was
9	think variable of interest is a phrase	9	charging for the for the nurse, and
10	you use in your report, and I guess it's	10	the numerator was the wage that went to
11	also comfortable calling it a dependent	11	the to the nurse, and so it's an
12	variable for a layperson, the variable	12	analogous construction of a dependent
13	we're trying to explain. Both of those	13	variable.
14	would be acceptable?	14	Q. Any other cases that you
15	A. Sure.	15	where you've estimated damages using the
16	Q. Okay. The	16	variable of interest or the dependent
17	THE VIDEOGRAPHER: We're ten	17	variable as the share to labor?
18	minutes left on this tape,	18	A. I'm not sure. I'm not sure
19	Counsel.	19	how many other wage suppression cases
20	MR. ISAACSON: All right.	20	I've done besides besides these two.
21	We'll go about five more minutes	21	I'd have to I'd have to go back and
22	and take a break.	22	think about it.
23	BY MR. ISAACSON:	23	Q. Okay.
24	Q. Have you done damages	24	MR. ISAACSON: All right.
	Page 107		Page 109
1	analysis before where you had used the	1	Why don't we take a break?
2	percentage of the percentage of	2	MR. CRAMER: Sure.
3	revenue as opposed to the absolute level	3	THE VIDEOGRAPHER: The time
4	of compensation as the variable of	4	is 11:26 AM. We are going off the
5	interest?	5	record, and this is the end of
6	A. It's possible. Sitting here	6	Disk 1.
7	I'm thinking of another of another	7	(Recess.)
8	wage case that I did, which was which	8	THE VIDEOGRAPHER: The time
9	I refer to as Arizona Travel Nurses, and	9	is 11:40 AM. This is the start of
10	it's possible that we when we did our	10	Disk 2, and we are now on the
11	modeling there, we expressed in fact,	11	record.
12	it's kind of coming back to me. I think	12	BY MR. ISAACSON:
13	we were interested in a nurse's payment	13	Q. So I want to continue our
14	relative to her bill rate. So so yes,	14	discussion of the percentage of revenue
15	I believe I've I've done something	15	paid to labor as the variable of
16	like that before.	16	interest.
17	Q. You say something like that,	17	Is there economic literature
18	have you done have you used as the	18	that you're familiar with that discusses
19	variable of interest before the share of	19	the percentage of revenue that's paid to
20	total revenue that goes to the labor	20	labor in a competitive industry as
21	force, whether that labor force is an	21	opposed to an industry that's less
22	employee or or contractors?	22	competitive?
23	A. I think so.	23	A. Is there economic
24	Q. Okay. And you think you did	24	literature?

	Page 118		Page 120
1	opposed to as a percentage of revenue?	1	Q. Well, I didn't ask about the
2	MR. CRAMER: Objection to	2	brand.
3	form, to generally. For what	3	The you would agree
4	purpose?	4	you would agree with me that effective
5	THE WITNESS: A firm could,	5	marketing and promotion could increase
6	if a firm bills if a law firm	6	the average revenue per event, correct?
7	bills an associate out at \$400 an	7	A. Yes.
8	hour, it could express what the	8	Q. And you would agree with me
9	what the young lawyer's salary on	9	that super improving television
10	an hourly basis is as a under	10	production can increase the average
11	an assumed utilization rate as a	11	revenue per event?
12	percentage of that young lawyer's	12	MR. CRAMER: All things
13	bill rate.	13	equal?
14	BY MR. ISAACSON:	14	MR. ISAACSON: Yes.
15	Q. And are you aware of any	15	THE WITNESS: I'm not sure
16	studies which express the marginal	16	what what you mean by improving
17	revenue product of labor in terms of the	17	television production.
18	percentage of revenue of the firm?	18	BY MR. ISAACSON:
19	A. I'm not aware, but as you've	19	Q. A better production that
20	expressed it, that's not quite what I'm	20	people enjoy more.
21	doing either.	21	MR. CRAMER: Objection to
22	Q. Now, in terms of did you	22	form.
23	make any effort to measure the marginal	23	THE WITNESS: And you're
24	revenue product of labor of UFC fighters?	24	asking me if I can conceive of
	Page 119		Page 121
1	A. Yes.	1	this as a matter of theory?
2	Q. Okay. And what would you	2	BY MR. ISAACSON:
3	point to me for that?	3	Q. Yes.
4	A. What I did, which is I I	4	A. As opposed to whether it
5	calculated the average revenue per event,	5	actually happened?
6	per fighter, and I'm using that as a	6	Q. Yes.
7	proxy for the marginal revenue product.	7	A. I think I'm I'm going to
8	Q. All right. If the	8	grant you that as a matter of theory one
9	average when you look at the average	9	could one could add value by
10	revenue per event, per fighter, how do	10	increasing the quality of the production.
11	you determine what part of that revenue	11	Q. Okay. Now, in this case,
12	is the contribution of the fighter as	12	you did not do an actual study yourself
13	opposed to, for example, marketing,	13	of the contribution of the UFC fighters
14	promotions, production or the work of the	14	to the average revenue per event; is that
15	overall firm?	15	right?
16	A. So for my purposes, I don't	16	MR. CRAMER: Asked and
17	need to figure out that that	17	answered.
18	decomposition. I will note, however,	18	THE WITNESS: I think that's
19	that I cite a study in my literature	19	correct. As I noted a few moments
20	review section that suggests that the	20	ago, that was not necessary for my
21	fighter is responsible for, if not all,	21	purposes.
22	the vast majority of of the	22	BY MR. ISAACSON:
23	pay-per-view revenues that are captured	23	Q. By using the average revenue
24	and not the brand.	24	per event, per fighter as a proxy, were

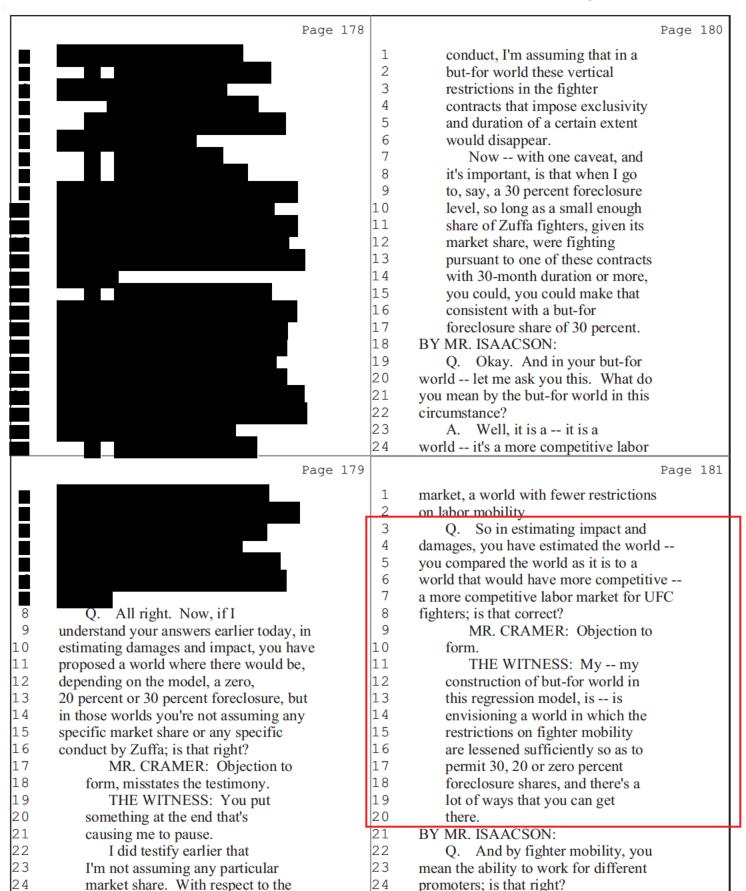


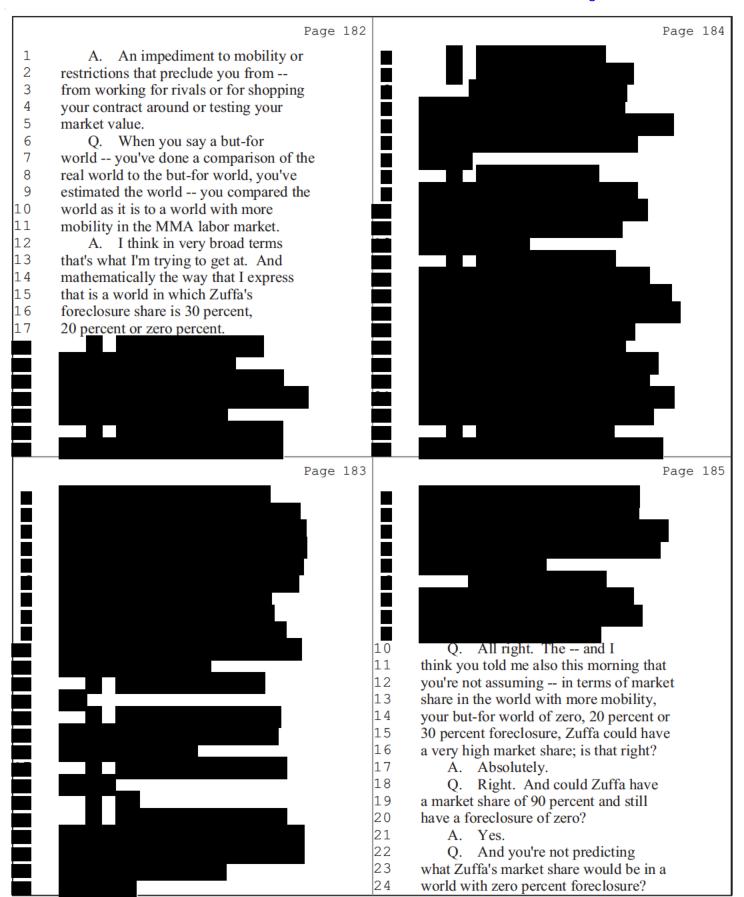




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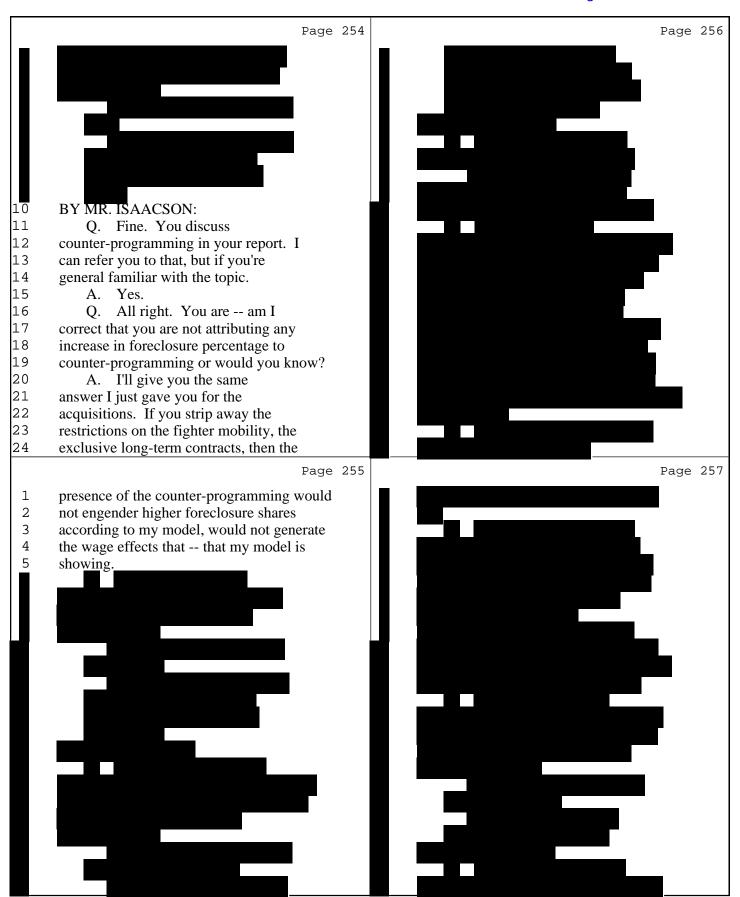
guess I would say I can't -- I just can't

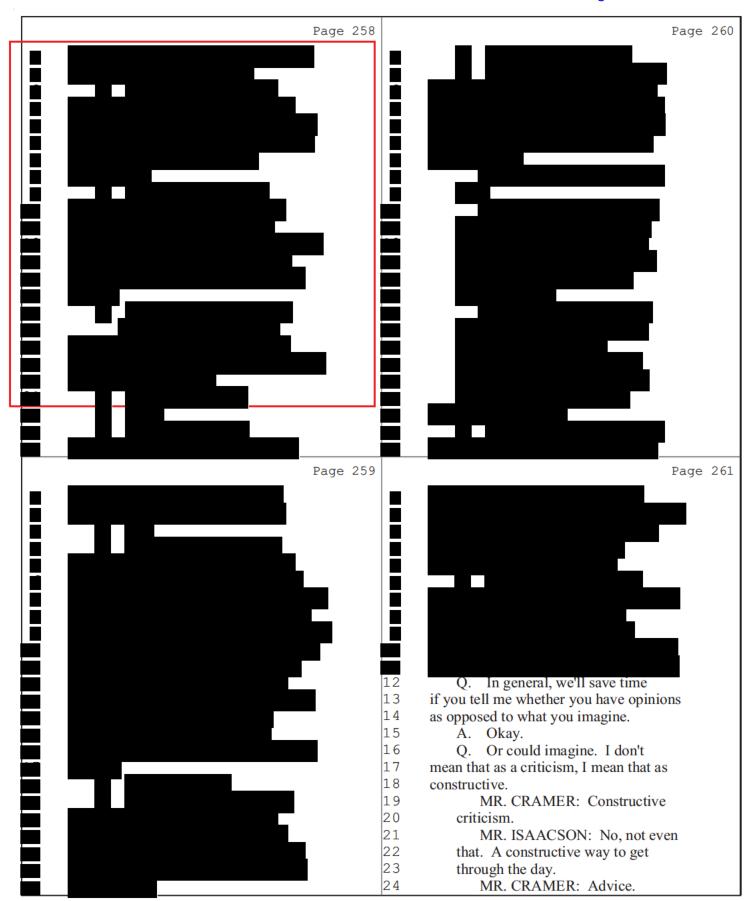




	Daga 246	1	Page 248
	Page 246		
1	arrangement.	1	into allegedly exclusionary contracts
2	So by construction, if I	2	with the vast majority of top fighters,
3	if I assume in a but-for world	3	and 3, taken other steps to use its
4	these restraints are removed, then	4	alleged dominance to impair potential
5	the foreclosure falls. I don't	5	rivals."
6	need an econometric proof of that.	6	And then you've also.
7	It it just follows from	7	Footnoting in footnote 2, the complaint.
8	elementary logic.	8	Though that's I'm not clear on whether
9	BY MR. ISAACSON:	9	that's not a footnote to the challenged
10	Q. Right. Well, for example,	10	conduct.
11	when we looked at Figure 3, you told me	11	MR. CRAMER: No, that's a
12	things you thought were important, but	12	footnote to the sentence at the
13	you didn't have any sort of mathematical	13	top of the page.
14	analysis to say, here's a clause that	14	MR. ISAACSON: Right.
15	relates to a specific foreclosure	15	BY MR. ISAACSON:
16	percentage; is that right?	16	Q. So is the challenged conduct
17	A. That is correct. I think	17	a subset of the allegations in the
18	I did not perform an inquiry as to the	18	complaint?
19	causes or drivers historically of a	19	MR. CRAMER: Objection to
20	foreclosure share. One could do that.	20	form. Foundation.
21	It sounds like there would be another	21	THE WITNESS: I don't think
22	econometric exercise. But the	22	so. I think that when I lay out
23	foreclosure share, as I've measured it,	23	my understanding of the challenged
24	is what it is, and it's an explanatory	24	conduct, I try to I try to
	Page 247		Page 249
1	variable model.	1	trace the conduct that's being
2	Q. Okay. Let's go to paragraph	2	challenged in the complaint.
3	1 of your report.	3	BY MR. ISAACSON:
4	A. Paragraph 1?	4	Q. Okay. And I'm we're
5	Q. Yes. Page somehow that's	5	going to focus on taken other steps to
6	page 4 and 5.	6	use its alleged dominance to impair
7	A. Got it.	7	potential rivals, because perhaps you'll
8	Q. I'm sorry, paragraph 2.	8	agree with me that that lacks
9	A. Oh, paragraph 2.	9	specificity, but that's okay for an
10	Q. You see in the middle	10	introduction.
11	there's the definition of challenged	11	A. Exactly.
12	conduct?	12	Q. Right, right, right.
13	"Plaintiffs allege that	13	A. It's made very explicit
14	these actions taken together, the	14	later on in the draft.
15	'challenged conduct.'"	15	Q. And then footnoting to
16	A. Yes.	16	that
17	Q. Okay. And the and in	17	A. In the report, sorry.
18	paragraph 2 you list three things.	18	Q at the end of that
19	"1, Zuffa" Zuffa's	19	sentence, it's to part VII A. If I
20	alleged to have, 1, eliminated potential	20	wanted to understand the complete
21	rival MMA promoters through horizontal	21	challenged conduct, is that where I would
22	acquisitions; 2, deprived potential	22	look to?
23	rivals of key inputs, the fighters	23	A. I don't think so. Let me
24	themselves, by entering" "entering	24	look at part 7A. That could be a typo.

	Page 250		Page 252
1	Q. It even gets confusing, your	1	that I'm measuring.
2	Table of Contents doesn't have a 7A.	2	Q. All right. The you are
3	A. Right. So let me	3	measuring an increase in foreclosure due
4	MR. CRAMER: I think it	4	to the acquisition of rivals by Zuffa; is
5	means 2.	5	that right?
6	THE WITNESS: Yeah.	6	MR. CRAMER: Asked and
7	MR. ISAACSON: 2A?	7	answered, form.
8	THE WITNESS: Yeah.	8	THE WITNESS: Conditional on
9	MR. CRAMER: There's a	9	Zuffa using exclusive contracts of
10	section of the report called	10	a sufficient duration, then yes,
11	under Roman II called Nature of	11	bringing on more fighters and
12	the Challenged Conduct.	12	funneling them through that
13	MR. ISAACSON: That would	13	mechanism is causing foreclosure
14	make more sense, yes.	14	to go up.
15	THE WITNESS: You want to	15	In contrast, if Zuffa were
16	strike the V there.	16	not using exclusive contracts of a
17	BY MR. ISAACSON:	17	sufficient duration and made a
18	Q. All right. So II A is the	18	horizontal acquisition, then by my
19	horizontal conduct?	19	regression model, at least, there
20	A. Yes.	20	would be no increase in
21	Q. And so is that the item 3 in	21	foreclosure share and there would
22	your paragraph 2, the other the other	22	be no anticompetitive effects.
23	conduct, is it the horizontal conduct?	23	In other words, the vertical
24	A. No.	24	restrictions on fighter mobility
	Page 251		Page 253
1		1	
1	Q. Okay. Would it be	1	are doing is the only necessary
2	everything in No. II that's would	2	condition, it is doing all the
3	your would the Roman numeral II,	3	all the lifting, if you will,
4	would that section capture the challenged	4	according to my model.
5	conduct?	5	BY MR. ISAACSON:
6	A. Roman II captures the		
7	challenged conduct.		
8	Q. Okay. Maybe I just got us		
9	another errata.		
10	The now, the esti		
11	your challenged conduct includes		
12	horizontal conduct and vertical conduct.		
13	As I understand it, from what you've said		
14	today, that you are not estimating injury		
15	or damages from the horizontal conduct;		
16	is that right?		
17	A. I think I'm not I'm not		
18	estimating any any impact or damages		
19	that flow entirely through the		
20	horizontal. What what's important and		
21	what drives the damages and the impact in		
22	my models are the vertical restraints.		
23	They're doing the that is the		
24	mechanism of harm that I'm capturing,		







	Dama 202		Da va 204
	Page 282		Page 284
1	you have used are consistent with the	1	So so the way that I've
2	merger guidelines, but you're not able to	2	implemented the output market, it depends
3	say whether they were sufficient to	3	on on the associated input market.
4	define those markets based on the merger	4	Q. Right. And that's why
5	guidelines?	5	mathematically I'm trying to understand
6	MR. CRAMER: Objection to	6	whether you have three output markets
7	form.	7	tied each one tied to an associated
8	THE WITNESS: I don't I	8	input market or there's one output market
9	just don't know what sufficient	9	tied to the three input markets.
10	means in that context.	10	A. Again, I like to think of
11	BY MR. ISAACSON:	11	there being one output market and one
12	Q. Okay. And when you say	12	input market and these are just different
13	they're consistent with the guidelines,	13	ways to measure them.
14	what do you mean?	14	Q. And the when you defined
15	A. I think the guidelines tell	15	the output market, you used revenue
16	us, and I even quote the guidelines when	16	weighting; is that right? Oh, no, it's
17	it comes to defining input markets, and	17	other way around. Never mind.
18	I'm faithful to the to the teachings	18	The revenue earned by the
19	and to the standards that are articulated	19	output market is the revenue that you use
20	in the guidelines.	20	when you do revenue weighting in the
21	Q. All right. And the output	21	input markets, correct?
22	markets that you define well, actually	22	A. It is possible to think of
23	let me break it down.	23	it that way, but when I was finding my
24	There's three two input	24	weights, my revenue weighting measures
	Page 283		Page 285
1	markets and one submarket, and there' a	1	of, say, market share or foreclosure
2	geographic market for each of those,	2	share, I wasn't thinking about the fact
3	correct?	3	that those revenues occur in the output
4	A. Correct.	4	market. But that's fair, if that's how
5	Q. And the geographic market	5	you would like to think about it. Of
6	for all three would be North America?	6	course the the output is the
7	A. Yes.	7	production of the event and the revenue
8		8	is associated with that output.
9	Q. Okay. And then you define an output market. Is that an output	9	Q. Right. And can you describe
10	market that's tied to each input market	10	to me a situation where a firm would have
11	or is there one output market?	11	monopoly (sic) power in the output market
12	A. There's one output market,	12	based on revenue, and would not have
13	but it does depend on how you have	13	monopsony power in the input market once
14	defined the input market. You may recall	14	you use the revenue weighting?
15	that when I when I chart, for example,	15	MR. CRAMER: Incomplete
16	the number of events in the relevant	16	hypothetical. Talking about this
17	output market, it depends on I'm	17	industry or just generally?
18	making it as a condition that an event	18	MR. ISAACSON: Generally.
19	an MMA event had to feature at least one	19	MR. CRAMER: Incomplete
20	fighter that belonged to the relevant	20	hypothetical.
21	to the associated relevant input market.	21	THE WITNESS: I don't
22	You probably recall	22	
23	· •	23	understand the question because
24		24	the revenue weighting isn't really
Z <del>4</del>	A. Those charts, 4A, B and C.	<del>-</del> 4	affecting my my conclusions

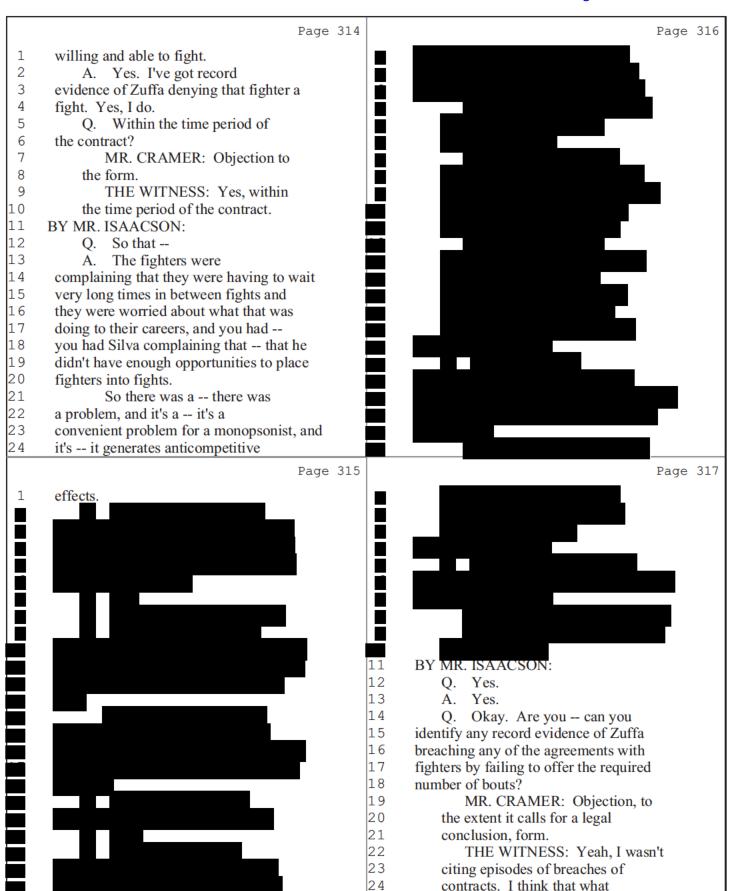
	Page 286		Page 288
1		1	
1	with respect to, say, a finding of	$\frac{1}{2}$	
2	monopsony power in the input market.	2	
3		3	
4	BY MR. ISAACSON:	4	
5	Q. Well, you do have findings	5	3
6	of monopsony power that do rely on	6	r
7	revenue weighting, right?	7	
8	A. I think that under the	8	
9	under the indirect approach and under	9	
10	only one pass through the indirect	10	, , , , , , , , , , , , , , , , , , ,
11	approach, I weight fighters by by	11	8 , , , ,
12	revenues to make an inference about	12	$\mathcal{E}$
13	Zuffa's high shares in that relevant	13	$\mathcal{E}$ 1
14	input market.	14	
15	ξ ξ	15	
16	A. But as you know, that's only	16	,
17	one of many, many approaches that allow	17	J J
18	me to get to the conclusion of monopsony	18	A. Sure. I think that you
19	power.	19	are the production or the product that
20	Q. Okay.	20	is being produced are is live MMA
21	A. I actually prefer	21	
22	Q. So let's return	22	those events can take the form of gate
23	A. Can I finish?	23	
24	Q. I thought you were.	24	
	Page 287		Page 289
1	A. I prefer direct evidence	1	there's there's revenues from the
2	generally, and I think that I've I	2	
3	offer a slew of evidence that speaks to	3	
4	how you can prove directly that Zuffa	4	1
5	exercises monopsony power.	5	
6	Q. I understand that you	6	ξ Θ
7	offered direct and indirect evidence, but	7	
8	I need to ask about them one at a time	8	initial estativization deligibility
9	and we can cover both.	9	
10	A. Okay.	10	
11	Q. So in terms of when you	11	1 2
12	define a market, can you describe to me a	12	
13	situation where if you use revenue	13	J. I. I. I. I.
14		$\frac{1}{14}$	· · · · · · · · · · · · · · · · · · ·
15	weighting in the input market, where	15	
16	the a monopoly firm would not	16	
	necessarily have a monopoly in the input		
17	market?	17	1 1 1 1
18	MR. CRAMER: Incomplete	18	
19	hypothetical, form.	19	
20	THE WITNESS: I've never	20	
21	given thought to that, and I'd	21	
22	like to think about it and maybe	22	
23	we'll come back. But I don't	23	
24	think I'm prepared to to	24	A. I haven't I haven't

the live event is staged, they would not be considered reasonably close substitutes.  6 Q. So for your input markets, what evidence did you take into account to price increase in the SSNIP analysis? 12 A. Did you mean to say – 1 13 think you just conflated the input markets and customers. Maybe we should start over. 16 Q. Yes, I said price increase 17 rather than wage decrease, but let me just put it this way: What evidence in your report did you take into account to the imput markets? 20 A. Sure. So there it's the perspective of the fighters not the eustomers. So I was tripping up over  10 Ves. 3 A. — injecting customers when we're talking about input markets. 4 we're talking about input markets. 5 So I can take you to the relevant sections, and I will, but of course at high levels, I'm looking at record evidence of - of what fighters and promoters thought about substitution 10 possibilities as you if you were to move away from Zuffa to counteract a hypothetical wage cut. 10 Q. Okay, So the first thing you looked at was record evidence of substitution. 21 Look of the fighters is and promoters thought about substitution 10 possibilities as you if you were to move away from Zuffa to counteract a hypothetical wage cut. 22 Q. That's that represents of the fighters, the promoters, and I'll just point you, if you 23 Q. That's that sufficient for for for for item I. 24 MR. ISAACSON: 25 MR. ISAACSON: 26 WR. ISAACSON: 27 MAR ISAACSON: 28 WR. ISAACSON: 29 WR. ISAACSON: 20 WA and I understand that the record evidence that you're not reciting today. 21 Okay. Other than the record evidence that you're not reciting today. 22 Was into down and the stakeholders, what would be other parts of your SSNIP analysis for the input market. 24 Well, record evidence that you were referring to? 25 Will point - to me the - what helps to guide me to the findings that I made with respect to the input market was the fact that Zuffa was able to successfully on the findings that I made with respect to the input market was the f		Page 2	90		Page 2	292
2 who lives very far from the venue where   2 be considered reasonably close   5 substitutes.   3	1	studied that and Limagine for someone	$\neg \bot$	1	to	
the live event is staged, they would not be considered reasonably close substitutes.  O. So for your input markets, what evidence did you take into account to assess customer's likely response to price increase in the SSNIP analysis? And feel free to point me to the sections of your report that — 11 think you just conflated the input markets and customers. Maybe we should start over.  Q. Yes, I said price increase rather than wage decrease, but let me just put it this way: What evidence in your report did you take into account to assess the likely response to a SSNIP in your report did you take into account to assess the likely response to a SSNIP in your report did you take into account to sasses the likely response to a SSNIP in your report did you take into account to sasses the likely response to a SSNIP in your report did you take into account to sasses the likely response to a SSNIP in your report did you take into account to sasses the likely response to a SSNIP in your report did you take into account to sasses the likely response to a SSNIP in your report did you take into account to sasses the likely response to a SSNIP in your report did you take into account to sasses the likely response to a SSNIP in your report did you take into account to sasses the likely response to a SSNIP in your report did you take into account to sasses the likely response to a SSNIP in your - Q. Yes. A. — injecting customers when we're talking about input markets. So I can take you to the relevant sections, and I will, but of relevant sections, and I will, but of course at high levels, I'm looking at record evidence of — of what fighters and promoters thought about substitution possibilities as you — if you were to line move away from Zuffa to counteract a layouthetical wage cut. Q. Okay, So the first thing you looked at was record evidence of substitution.  A. Or the perception of substitution from the stakeholders, the fighters, the promoters, and I'll just point you, if you — Q. That's — that's sufficient  A. Or the per			Ш			
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7 course at high levels, I'm looking at 8 record evidence of of what fighters 9 and promoters thought about substitution 10 possibilities as you if you were to 11 move away from Zuffa to counteract a 12 hypothetical wage cut. 13 Q. Okay. So the first thing 14 you looked at was record evidence of 15 substitution. 16 A. Or the perception of 17 substitution fighters, the promoters, and I'll just 18 fighters, the promoters, and I'll just 19 point you, if you 20 Q. That's that's sufficient 21 MR. CRAMER: You asked him 26 percent to 18 percent, yet Zuffa did 17 ont suffer sufficient defection so as to 18 not suffer sufficient to 18 percent, yet Zuffa did 19 not suffer sufficient defection so as to 10 not suffer sufficient to 18 percent, yet Zuffa did 10 not suffer sufficient to 18 percent, yet Zuffa did 10 not suffer sufficient to 18 percent, yet Zuffa did 10 not suffer sufficient to 18 percent, yet Zuffa did 10 not suffer sufficient to 18 percent, yet Zuffa did 10 not suffer sufficient to 18 percent, yet Zuffa did 10 not suffer sufficient to 18 percent, yet Zuffa did 10 not suffer sufficient to 18 percent, yet Zuffa did 10 not suffer sufficient to 18 percent, yet Zuffa did 10 not suffer sufficient to 18 percent, yet Zuffa did 10 not suffer sufficient to 18 percent, yet Zuffa did 10 not suffer sufficient to 18 percent, yet Zuffa did 10 not suffer sufficient to 18 percent, yet Zuffa did 10 not suffer sufficient to 18 percent, yet Zuffa did 11 render that wage decrease unprofitable. 12 Now, that that tells you, 13 as a matter of economics, that a that 14 a reasonable starting place for defining 15 the contours of the relevant input market 16 is just the fighters under Zuffa's 17 control. That was the the first thing 18 that occurred to me. 19 And once you once you 20 Start there, you can start looking at 21 record evidence to determine whether 22 additional fighters from from rival						
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A. Or the perception of substitution from the stakeholders, the substitution from the stakeholders, the fighters, the promoters, and I'll just substitution from the stakeholders, the promoters, and I'll just substitution from the stakeholders, the substitution from the substitution from the stakeholders, the substitution from the stakeholders, the substitution from the stakeholders, the substitution from the stakeholders from the substitution from the stakeholders, the substitution from the stakeholders, the substitution from the stakeholders from the substitution		•				
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fighters, the promoters, and I'll just point you, if you 19 And once you once you 20 Q. That's that's sufficient 21 for for item 1. 21 record evidence to determine whether 22 MR. CRAMER: You asked him 22 additional fighters from from rival						
point you, if you  Q. That's that's sufficient  for for item 1.  MR. CRAMER: You asked him  And once you once you  start there, you can start looking at  record evidence to determine whether  additional fighters from from rival						
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for for item 1. 21 record evidence to determine whether 22 MR. CRAMER: You asked him 21 reddence to determine whether 22 additional fighters from from rival					· · · · · · · · · · · · · · · · · · ·	
MR. CRAMER: You asked him 22 additional fighters from from rival						
12 to fook at his report. 12 promotivities ought to ut included so that						
MR. ISAACSON: I'm going 24 you eventually get to the smallest set of						

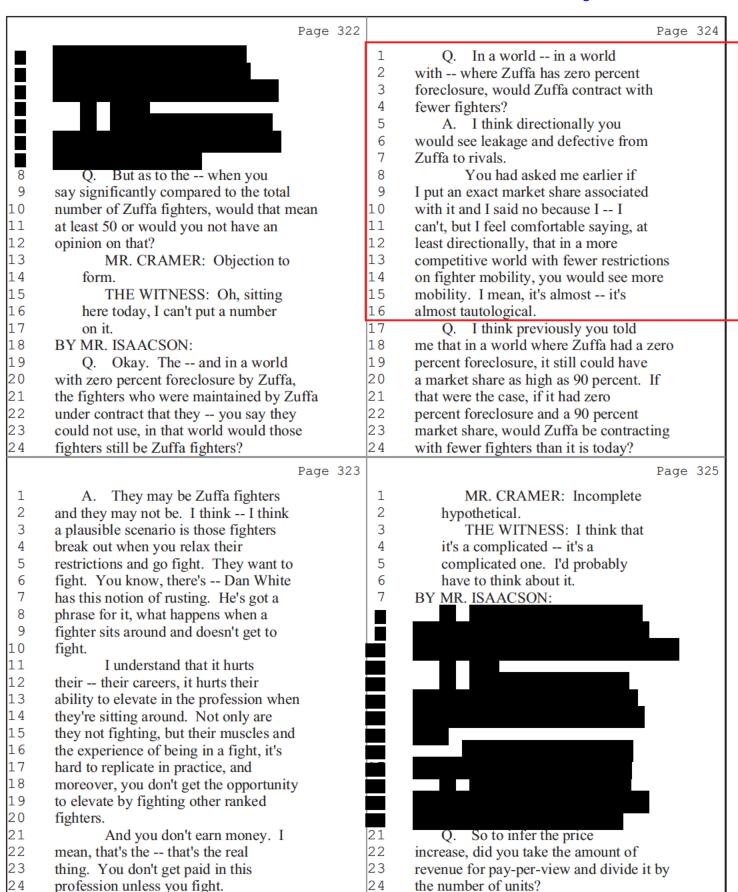
Page 294 Page 296 BY MR. ISAACSON: fighters such that a hypothetical 1 1 2 2 monopsonist could profitably exercise O. So my actual question was --3 3 monopsony power. I understand you're focused on that, but Q. All right. And you said 4 4 my question is, did you look at whether 5 5 that Zuffa was able to successfully Zuffa actually suppressed actual wages? 6 6 suppress fighter wages -- wage share. A. Without controlling for You were talking only about the share of 7 7 revenues, no. Because it's incorrect to 8 revenues there, correct? 8 Correct. 9 Q. So in performing your SSNIP 10 analysis for the input markets, is it 11 fair to say that you relied on the record evidence about the issue of perceived 12 13 substitution from the stakeholders along 14 with your observations that when Zuffa 15 suppressed fighter wage shares, there weren't significant defections? 16 17 A. I think -- I think that 18 encompasses a lot. I also think that 19 Zuffa in its ordinary course of business made use of a FightMetrics (sic) 20 21 database. I had -- the very first thing 22 I did when I -- when I got this case was 23 I started reading the economic literature 24 on the MMA industry, and almost every Page 295 Page 297 article I read, the FightMetrics (sic) 1 2 database formed the foundation of their 3 empirical analysis. 4 So I thought that that was a BY MR. ISAACSON: 5 reasonable place to begin to posit what Q. All right. But in your -the smallest set of fighters that could 6 6 7 in your hypothetical there you held 7 be under the control of a hypothetical 8 revenues constant. Did you look at, as 8 monopsony would be in order for it to 9 part of your analysis of the input market 9 exercise market power. 10 and defining that market, as to whether 10 Q. All right. Why did you use the smallest set of fighters not the 11 Zuffa actually suppressed actual wages? 11 smallest amount of promoters? 12 MR. CRAMER: Objection to 12 13 13 A. Well, because we're looking form. 14 at the input market. The fighters form 14 BY MR. ISAACSON: 15 15 Q. As opposed to wage share? the elements of the input market. They 16 16 MR. CRAMER: Same objection. happen to belong to promoters, but 17 17 THE WITNESS: I'm focused on fighters are the elements or the 18 18 wage share, of course, because ingredients. it's the right thing to look at 19 But I'm -- if I'm a 19 20 from an economic perspective. 20 fighter -- just to make it clear, if I'm 21 21 We're trying to measure a fighter and I'm thinking about 22 substituting, defecting from UFC and 22 exploitation, and the textbooks 23 23 tell you to do it as a share of going to a rival promotion, I don't care 24 marginal revenue product. 24 what the name of the promotion is or

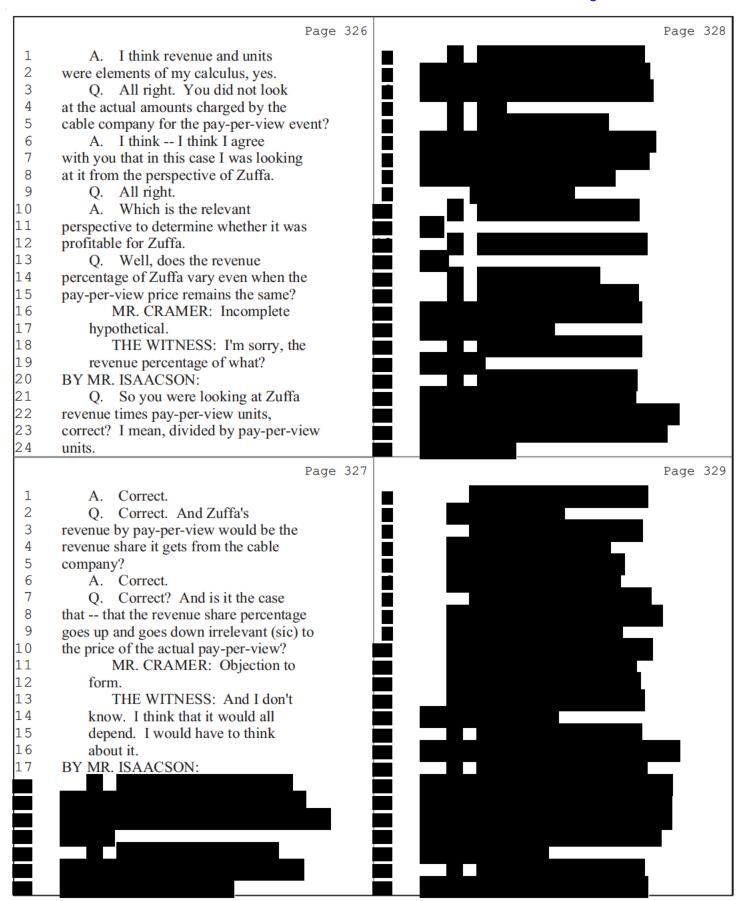
	Page 306		Page 3	08
1	look at the perspective of of	1	relevant output market.	
2	different stakeholders. That's	2	Q. Actually, I might have	
3	why I didn't limit myself to the	3	gotten that confused.	
4	perspective of fighters. When you	4	Was that part of your direct	
5	go through those multiple	5	evidence I think?	
6	paragraphs in the section, you	6	A. It's part of the direct, but	
7	will see other promoters giving	7	I can't help from from thinking about	
8	opinions about what they think	8	direct evidence when I go about	
9	about about rival MMA	9	constructing my relevant markets.	
10	promotions, what they think about	10	Q. The I'll come to this	
11	options outside of of the MMA.	11	the direct evidence. In the and so we	
12	BY MR. ISAACSON:	12	will take as on the record that in	
13	Q. All right. So let's move to	13	constructing your input and output	
14	your output markets.	14	markets, you also considered your direct	
15	I'm assuming that for your	15	evidence, okay, so that you don't need to	
16	output markets you relied on the record	16	repeat that.	
17	evidence of the perception of	17	A. I can tell you like it,	
18	substitutability from the point of view	18	though. So this is the last time I can	
19	of the stakeholders.	19	ever say it in a deposition?	
20	MR. CRAMER: Is that a	20	Q. No, I'm trying to save you	
21		21	some time.	
22	question? BY MR. ISAACSON:	22		
23		23	A. Okay.	
24	<ul><li>Q. Am I correct on that?</li><li>A. I think that encompasses a</li></ul>	24	Q. The in analyzing the output market other than the record	
24	Page 307	24	Page 3	<u> </u>
	raye 307			09
1	lot, yes.	1	evidence of substitute perceptions of	
2	Q. Right.	2	substitutability, did you do anything	
3	A. And it's a good place	3	else in your SSNIP analysis?	
4	Q. And	4	MR. CRAMER: Objection to	
5	A. It would be a good place to	5	form, misstates the testimony.	
6	begin.	6	You're excluding one of the things	
7	Q. And as I understand it, what	7	he said he did.	
8	you you also relied on the effect on	8	MR. ISAACSON: You're doing	
9	consumers of an increase in pay-per-view	9	a lot of speaking objections now.	
10	prices.	10	I realize it's getting late in the	
11	A. This is really important,	11	day but	
12	right? I mean, if we're not talking	12	THE WITNESS: I would just	
13	about a not-so hypothetical	13	like to look at the sections which	
14	Q. We'll go into that in some	14	go from 115 paragraph 115 to	
15	detail.	15	119, and see if there's anything	
16	A. Exercising a profitable	16	outside of the umbrella of record	
17	price increase, we have a real one, and	17	evidence of the perceptions of the	
18	we need to make an inference about it	18	relevant stakeholders as to how	
19	from an economic perspective.	19	they would respond to how a	
20	This this not so	20	consumer would respond to a price	
21	hypothetical monopsonist raised prices	21	increase.	
22	and yet saw a revenue increase because	22	I'll note that there are a	
23	the demand that it faced was so lasting.	23	few articles in Forbes, I'm	
24	That tells you a lot about constructing a	24	looking at footnote 317, 318 and	

	Page 3	310		Page	312
1	_		1	form.	
2	321, that we came to outside of the record evidence		1 2	BY MR. ISAACSON:	
3	BY MR. ISAACSON:		3		
4			4	Q. Can you quantify that tax for me?	
5	Q. Okay.		5	A. I'm not sure I'm able to	
6	A that speak to, for		6		
7	example, whether wrestling would be perceived as a as a reasonable		7	that quantify the sponsorship tax.	
8	substitute from the perceptive of		8	Q. Okay. The second type of direct evidence you talk about is the	
9	consumers to a live MMA event. I think		9	direct evidence you talk about is the direct is the evidence to restrict the	
10	that those Forbes articles and the record		10	supply of fighter services, and you talk	
11	evidence and knowledge that Zuffa was		11	about Zuffa consistently maintains	
12			12	significantly more fighters under	
13	able to profitably impose a price		13	contract than it could use.	
14	increase on pay-per-view, all guided me		14		
15	in reaching the final conclusion as to		15	Now, when you say	
16	the relevant output market.		16	consistently, what years are you	
17	Q. I'm going to have you repeat that because that was at the end of a		17	referring to?	
18		_	18	A. The class period.	
19	very long answer about what you were		19	Q. And so it's your opinion	
20	going to look at. Or I'll repeat it to		20	that consistently throughout the class	
21	you.		21	period, that Zuffa maintained	
22	In doing your SSNIP analysis		22	significantly more fighters under contract than it could use?	
23	for the output markets, you relied on Forbes articles and record evidence that		23		
24			24	A. Yes. Q. And when you say "than it	
24	caused you to conclude that Zuffa would		24		212
	Page 3	311		Page	313
1	be able to profitably impose along		1	could use," do you mean that it was	
2	with knowledge that Zuffa was profitably		2	unable to give those fighters give	
3	impose a price increase on pay-per-view		3	fights to those fighters?	
4	to reach your conclusions as to the		4	MR. CRAMER: Objection to	
5	relevant output market?		5	form.	
6	A. That's fair.		6	THE WITNESS: It was unable	
7	Q. And your direct evidence is		7	to give fights to fighters in a	
8	discussed on page 98 beginning on page		8	timely fashion.	
9	98.		9	BY MR. ISAACSON:	
10	A. Uh-huh.		10	Q. All right. And when you say	
11	Q. All right. The first item		11	a timely fashion, do were they able to	
12	of direct evidence is the power to		12	give the fights to the fighters within	
13	suppress fighter competition below		13	the time period of the contract?	
14	competitive levels.		14	MR. CRAMER: Objection to	
15	And you list several items.		15	form.	
16	Each of those relate to reduced fighter		16	THE WITNESS: I'm I'm	
17	share; that is, the share of revenues		17	hesitating because I'm aware of	
18	other than your reference to its		18	record evidence suggesting that	
19	sponsorship tax.		19	Zuffa on occasion would toll the	
20	Do I understand that right?		20	clock either for real or imagined	
21	A. Yes.		21	injury or	
22	Q. Okay. The and how		22	BY MR. ISAACSON:	
23	significant was the sponsorship tax?		23	Q. All right. But I'm I'm	
24	MR. CRAMER: Objection to		24	talking about a fighter who is ready,	



	Page 3	318	Page 320
1	Zuffa was doing was was likely		
2	inside of the letter of the law of		
3	the contract, but nevertheless,		
4	they were strategically delaying	4	Q. Did you do anything to
5	fighters for many reasons,	5	replicate the work of that study?
6	including trying to lock a fighter	6	A. I did not. I did not
7	into the next contract.	7	replicate the work of that study.
8	BY MR. ISAACSON:	8	Q. Okay. And can you give me
9	Q. All right. The are you	9	any magnitude of fighters that that we
10	aware of an any plaintiff or proposed	10	are talking about. 50 fighters, 100
11	class member who has alleged that Zuffa	11	fighters in a year?
12	failed to failed to offer them the	12	MR. CRAMER: Objection to
13	number of bouts that were required under	13	form.
14	a contract within the term of that	14	THE WITNESS: I don't have
15	agreement?	15	a I don't have a precise number
16	MR. CRAMER: Same objection.	16	for you.
17	Objection to form. Objection to	17	BY MR. ISAACSON:
18	the extent it calls for a legal	18	Q. When you say significantly
19	conclusion.	19	more fighters, can you give me a range?
20	THE WITNESS: That's by	20	A. I don't know if I can
21	memory, that's not that's not	21	denominate it in terms of a range. The
22	how I recall the evidence shaking	22	mechanism here is denying rivals access
23	out. The evidence shakes out in	23	to fighters and not being able to deploy
24	a in a different way.	24	those assets in a timely fashion. That's
2 1	Page 3		Page 32:
1	BY MR. ISAACSON:	1	the that's the mechanism.
2		2	
3	Q. All right. When you say	3	Q. Right. But when you say in
	significantly more fighters than it could		your report that they consistently
4	use, what's the magnitude of fighters	4	maintain significantly more fighters
5	that you're talking about?	5	under contract than they could use, was
6	A. Well, there's been a study	6	that more than ten fighters?
7	by by some economists looking at I	'	A. I believe so, but sitting
8	think trying to measure just by how much	8	here, I'm not in a position to give you a
9	the capacity problem was, but sitting	9	quantitative estimate.
10	here, I I can't tell you how big it	10	Q. All right. Would you be
11	was. I can only describe it in	11	able to say whether it was more than 50?
12	qualitative terms.	12	A. Sitting here, I don't think
13	Q. All right. The study did	13	I can, but it's conceivable I can do
14	you do any the study that you're	14	that. If that were an assignment, I
15	referring to is quoted in your report?	15	could go try to estimate that.
16	A. Yes.		





	Page 330		Page 332
_	raye 330		
		1	record.
		2	(Recess.)
		3	THE VIDEOGRAPHER: The time
		4	is 4:31 PM. We have been on the
	_	5	record for five hours and
		6	36 minutes.
7	Q. So you're characterizing all	7	MR. CRAMER: All right. We
8	of the pay-per-view events as marquee	8	have no questions.
9	events when you say marquee events?	9	MR. ISAACSON: Thanks.
10	A. I think that you might be	10	MR. CRAMER: Let's go off
11	able to find counterexamples, a handful	11	the record.
12	of counterexamples of a pay-per-view that	12	THE VIDEOGRAPHER: All
13	doesn't feature a headliner, but in	13	right. The time is 4:31 PM.
14	general it would be really hard to sell	14	This concludes the
15	it unless it featured a headliner.	15	deposition and this is the end of
16	Q. Right. And did the and	16	Disk 3.
17	if Zuffa if a firm decided that it	17	(Witness excused.)
18	wanted to move marquee events from	18	(Deposition concluded at
19	pay-per-view to broadcast, would you	19	approximately 4:31 PM.)
20	consider that direct evidence of power to	20	
21	restrict supply?	21	
22	MR. CRAMER: Incomplete	22	
23	hypothetical, form.	23	
24	THE WITNESS: Well, you're	24	222
	Page 331		Page 333
1	asking me to assume something that	1 2	CERTIFICATE
2	I understand to be an unprofitable	3	CERTIFICATE
3	move.	4	LIEDEDY CEDTEN 4-14.
4	But if if your experts	5	I HEREBY CERTIFY that the witness was duly sworn by me and that the
5	can show evidence that these	6	deposition is a true record of the
6	marquee events moved one-for-one	7	testimony given by the witness.
7	from pay-per-view to to	_ ′	It was requested before
8	television, I'd be happy to	8	completion of the deposition that the
9	consider such evidence. But I	9	witness, HAL J. SINGER, Ph.D., have the opportunity to read and sign the
10	don't have an opinion on it right		deposition transcript.
11	now.	10 11	godlen
12	Q. Okay.	12	Constance Constance
13	THE VIDEOGRAPHER: Excuse	12	Constance S. Kent, CCR, RPR,
14	me, Counsel. We're approaching	13	Certified Court Reporter Registered Professional Reporter
15	ten minutes left on the disk.	14	Certified LiveNote Reporter
16 17	MR. ISAACSON: I think I'm	15	and Notary Public in and for the Commonwealth of Pennsylvania
18	done.		Dated: October 1, 2017
19	Give me one minute, but I	16	
20	think I'm about done for the day.  Give us a minute.	17 18	
21		19	
22	MR. CRAMER: Let's go off the record.	20 21	(The foregoing certification of this transcript does not apply to any
23	THE VIDEOGRAPHER: The time	22	reproduction of the same by any means,
24		23	unless under the direct control and/or
4	is 4:28 PM. We are going off the	24	supervision of the certifying reporter.)

	Page 334		Page	336
1 2	INSTRUCTIONS TO WITNESS	1 2	ACKNOWLEDGMENT OF DEPONENT	
3	Please read your deposition	3	ACKNOWEEDOMENT OF DEFONENT	
4	over carefully and make any necessary	4	I,, do hereby certify that I have read the	
5	corrections. You should state the reason	5	hereby certify that I have read the	
6	in the appropriate space on the errata	6	foregoing pages, 1 - 337, and that the	
7	sheet for any corrections that are made.	7 8	same is a correct transcription of the answers given by me to the questions	
8	After doing so, please sign	9	therein propounded, except for the	
9	the errata sheet and date it.	10	corrections or changes in form or	
10	You are signing same subject	11	substance, if any, noted in the attached	
11	to the changes you have noted on the	12	Errata Sheet.	
12	errata sheet, which will be attached to	13		
13	your deposition.	14 15		
14 15	It is imperative that you return the original errata sheet to the	16	HAL J. SINGER, Ph.D. DATE	-
16	deposing attorney within thirty (30) days	17	THE S. SHAGER, THE	
17	of receipt of the deposition transcript	18		
18	by you. If you fail to do so, the	19		
19	deposition transcript may be deemed to be	20	Subscribed and sworn	
20	accurate and may be used in court.	21	to before me this day of, 20	
21	•	22	My commission expires:	
22		23	my commission expires.	
23				
24		24	Notary Public	
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